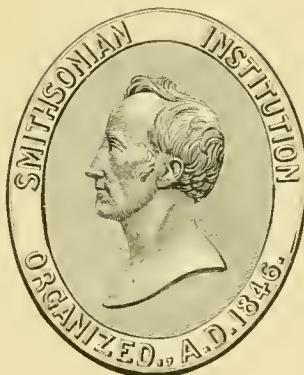


SMITHSONIAN
CONTRIBUTIONS TO KNOWLEDGE.

VOL. XXXI.



EVERY MAN IS A VALUABLE MEMBER OF SOCIETY WHO, BY HIS OBSERVATIONS, RESEARCHES, AND EXPERIMENTS, FLOURESSES KNOWLEDGE FOR MEN.—SMITHSON.



CITY OF WASHINGTON:
PUBLISHED BY THE SMITHSONIAN INSTITUTION.
1895.

ADVERTISEMENT.

THIS volume forms the thirty-first of a series, composed of original memoirs on different branches of knowledge, published at the expense and under the direction of the Smithsonian Institution. The publication of this series forms part of a general plan adopted for carrying into effect the benevolent intentions of JAMES SMITHSON, Esq., of England. This gentleman left his property in trust to the United States of America to found at Washington an institution which should bear his own name and have for its objects the "*increase* and *diffusion* of knowledge among men." This trust was accepted by the Government of the United States, and acts of Congress were passed August 10, 1846, and March 12, 1894, constituting the President, the Vice-President, the Chief Justice of the United States Supreme Court, and the heads of Executive Departments an establishment under the name of the "SMITHSONIAN INSTITUTION, FOR THE INCREASE AND DIFFUSION OF KNOWLEDGE AMONG MEN." The members of this establishment are to hold stated and special meetings for the supervision of the affairs of the Institution and for the advice and instruction of a Board of Regents to whom the financial and other affairs are intrusted.

The Board of Regents consists of two members *ex officio* of the establishment, namely, the Vice-President of the United States and the Chief Justice of the Supreme Court, together with twelve other members, three of whom are appointed from the Senate from its own body, three from the House of Representatives from its members, and six persons appointed by a joint resolution of both Houses. To this Board is given the power of electing a Secretary and other officers for conducting the active operations of the Institution.

To carry into effect the purposes of the testator, the plan of organization should evidently embrace two objects: one, the increase of knowledge by the addition of new truths to the existing stock; the other, the diffusion of knowledge, thus increased, among men. No restriction is made in favor of any kind of knowledge, and hence each branch is entitled to and should receive a share of attention.

The act of Congress establishing the Institution directs, as a part of the plan of organization, the formation of a library, a museum, and a gallery of art, together with provisions for physical research and popular lectures, while it leaves to the Regents the power of adopting such other parts of an organization as they may deem best suited to promote the objects of the bequest.

After much deliberation, the Regents resolved to apportion the annual income specifically among the different objects and operations of the Institution in such manner as may, in the judgment of the Regents, be necessary and proper for each, according to its intrinsic importance, and a compliance in good faith with the law.

The following are the details of the parts of the general plan of organization provisionally adopted at the meeting of the Regents December 8, 1847:

DETAILS OF THE FIRST PART OF THE PLAN.

I. TO INCREASE KNOWLEDGE.—*It is proposed to stimulate research by offering rewards for original memoirs on all subjects of investigation.*

1. The memoirs thus obtained to be published in a series of volumes, in a quarto form, and entitled "Smithsonian Contributions to Knowledge."
2. No memoir on subjects of physical science to be accepted for publication which does not furnish a positive addition to human knowledge, resting on original research; and all unverified speculations to be rejected.
3. Each memoir presented to the Institution to be submitted for examination to a commission of persons of reputation for learning in the branch to which the memoir pertains, and to be accepted for publication only in case the report of this commission is favorable.
4. The commission to be chosen by the officers of the Institution, and the name of the author, as far as practicable, concealed, unless a favorable decision be made.
5. The volumes of the memoirs to be exchanged for the transactions of literary and scientific societies, and copies to be given to all the colleges and principal libraries in this country. One part of the remaining copies may be offered for sale, and the other carefully preserved to form complete sets of the work to supply the demand from new institutions.
6. An abstract, or popular account, of the contents of these memoirs to be given to the public through the annual report of the Regents to Congress.

II. TO INCREASE KNOWLEDGE.—*It is also proposed to appropriate a portion of the income annually to special objects of research, under the direction of suitable persons.*

1. The objects and the amount appropriated to be recommended by counsellors of the Institution.
2. Appropriations in different years to different objects, so that in course of time each branch of knowledge may receive a share.

3. The results obtained from these appropriations to be published, with the memoirs before mentioned, in the volumes of the Smithsonian Contributions to Knowledge.

4. Examples of objects for which appropriations may be made:

(1) System of extended meteorological observations for solving the problem of American storms.

(2) Explorations in descriptive natural history, and geological, mathematical, and topographical surveys, to collect material for the formation of a physical atlas of the United States.

(3) Solution of experimental problems, such as a new determination of the weight of the earth, of the velocity of electricity, and of light; chemical analyses of soils and plants; collection and publication of scientific facts, accumulated in the offices of Government.

(4) Institution of statistical inquiries with reference to physical, moral, and political subjects.

(5) Historical researches and accurate surveys of places celebrated in American history.

(6) Ethnological researches, particularly with reference to the different races of men in North America; also explorations and accurate surveys of the mounds and other remains of the ancient people of our country.

I. To DIFFUSE KNOWLEDGE.—*It is proposed to publish a series of reports, giving an account of the new discoveries in science, and of the changes made from year to year in all branches of knowledge not strictly professional.*

1. Some of these reports may be published annually, others at longer intervals, as the income of the Institution or the changes in the branches of knowledge may indicate.

2. The reports are to be prepared by collaborators eminent in the different branches of knowledge.

3. Each collaborator to be furnished with the journals and publications, domestic and foreign, necessary to the compilation of his report; to be paid a certain sum for his labors, and to be named on the title-page of the report.

4. The reports to be published in separate parts, so that persons interested in a particular branch can procure the parts relating to it without purchasing the whole.

5. These reports may be presented to Congress for partial distribution, the remaining copies to be given to literary and scientific institutions and sold to individuals for a moderate price.

The following are some of the subjects which may be embraced in the reports:

I. PHYSICAL CLASS.

1. Physics, including astronomy, natural philosophy, chemistry, and meteorology.
2. Natural history, including botany, zoology, geology, etc.
3. Agriculture.
4. Application of science to arts.

II. MORAL AND POLITICAL CLASS.

5. Ethnology, including particular history, comparative philology, antiquities, etc.
6. Statistics and political economy.
7. Mental and moral philosophy.
8. A survey of the political events of the world; penal reform, etc.

III. LITERATURE AND THE FINE ARTS.

9. Modern literature.
10. The fine arts, and their application to the useful arts.
11. Bibliography.
12. Obituary notices of distinguished individuals.

II. To DIFFUSE KNOWLEDGE.—*It is proposed to publish occasionally separate treatises on subjects of general interest.*

1. These treatises may occasionally consist of valuable memoirs translated from foreign languages, or of articles prepared under the direction of the Institution, or procured by offering premiums for the best exposition of a given subject.
2. The treatises to be submitted to a commission of competent judges previous to their publication.

DETAILS OF THE SECOND PART OF THE PLAN OF ORGANIZATION.

This part contemplates the formation of a library, a museum, and a gallery of art.

1. To carry out the plan before described a library will be required consisting, first, of a complete collection of the transactions and proceedings of all the learned societies of the world; second, of the more important current periodical publications and other works necessary in preparing the periodical reports.
2. The Institution should make special collections particularly of objects to illustrate and verify its own publications; also a collection of instruments of research in all branches of experimental science.
3. With reference to the collection of books other than those mentioned above, catalogues of all the different libraries in the United States should be procured, in order that the valuable books first purchased may be such as are not to be found elsewhere in the United States.
4. Also catalogues of memoirs and of books in foreign libraries and other materials should be collected, for rendering the Institution a center of bibliographical knowledge, whence the student may be directed to any work which he may require.
5. It is believed that the collections in natural history will increase by donation as rapidly as the income of the Institution can make provision for their reception, and therefore it will seldom be necessary to purchase any article of this kind.
6. Attempts should be made to procure for the gallery of art casts of the most celebrated articles of ancient and modern sculpture.
7. The arts may be encouraged by providing a room, free of expense, for the exhibition of the objects of the Art Union and other similar societies.
8. A small appropriation should annually be made for models of antiquities, such as those of the remains of ancient temples, etc.
9. The Secretary and his assistants, during the session of Congress, will be required to illustrate new discoveries in science and to exhibit new objects of art. Distinguished individuals should also be invited to give lectures on subjects of general interest.

In accordance with the rules adopted in the programme of organization, the memoir in this volume has been favorably reported on by a commission appointed for its examination. It is, however, impossible, in most cases, to verify the statements of an author, and therefore neither the commission nor the Institution can be responsible for more than the general character of a memoir.

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SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE.

— 982 —

OCEANIC ICHTHYOLOGY,

A TREATISE ON THE

DEEP-SEA AND PELAGIC FISHES OF THE WORLD,

BASED CHIEFLY UPON

THE COLLECTIONS MADE BY THE STEAMERS BLAKE, ALBATROSS,
AND FISH HAWK IN THE NORTHWESTERN ATLANTIC,

WITH

AN ATLAS CONTAINING 417 FIGURES.

BY

GEORGE BROWN GOODE, Ph. D., LL. D.,

Assistant Secretary Smithsonian Institution, in charge of U. S. National Museum,

AND

TARLETON H. BEAN, M. D.,

Director of the New York Aquarium.



CITY OF WASHINGTON:

PUBLISHED BY THE SMITHSONIAN INSTITUTION.

1895.

COMMISSION TO WHOM THIS MEMOIR HAS BEEN REFERRED.

THEODORE GILL.

DAVID STARR JORDAN.

EDWARD D. COPE.

ADVERTISEMENT.

The following memoir, by Doctors G. Brown Goode and Tarleton H. Bean, having been published at the joint expense of the Smithsonian fund and of the printing appropriation of the United States National Museum, two separate editions are issued, one forming a portion of the series of Smithsonian Contributions to Knowledge, and the other appearing as a special bulletin of the United States National Museum.

In accordance with the rule adopted by the Smithsonian Institution, the work has been submitted for examination to a commission consisting of Doctors Theodore Gill, David S. Jordan, and Edward D. Cope, and having been recommended for publication by these gentlemen, it is herewith presented as a work of original research, illustrating more particularly the deep-sea and pelagic fishes of the world.

S. P. LANGLEY,
Secretary.

SMITHSONIAN INSTITUTION,
Washington, July, 1895.

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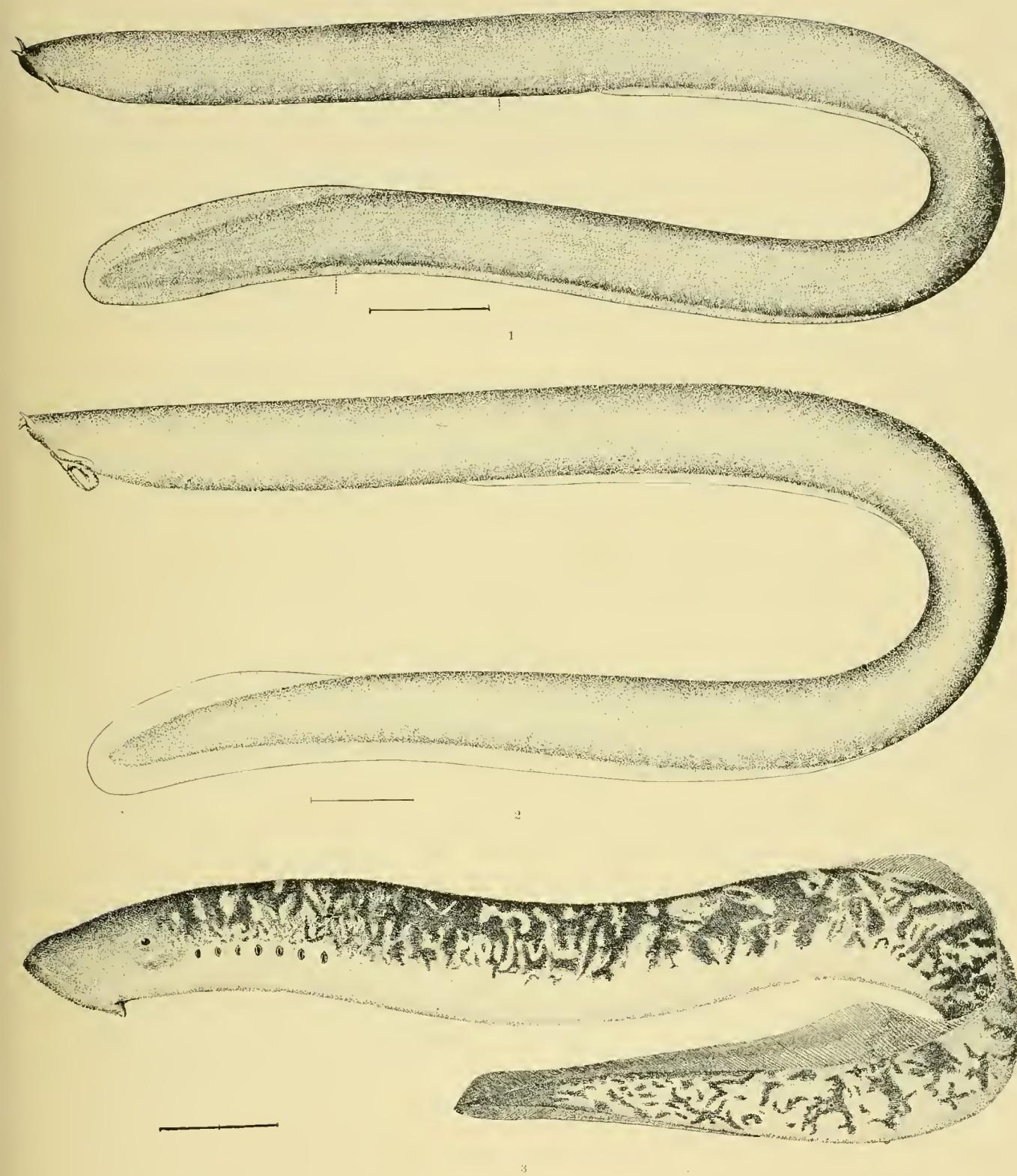
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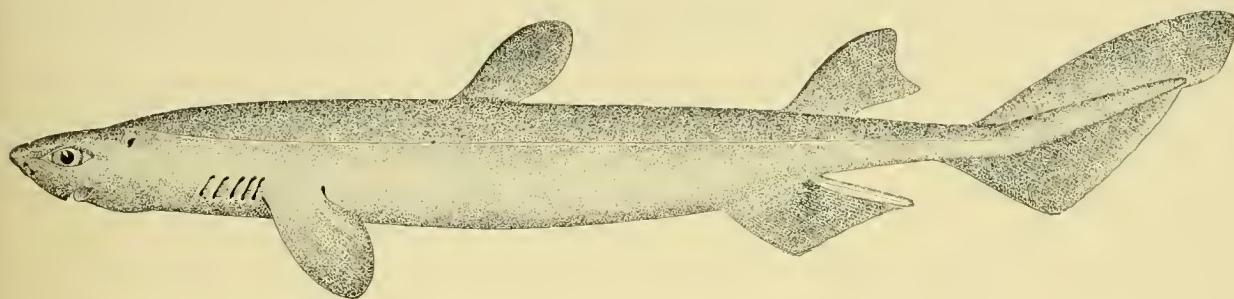
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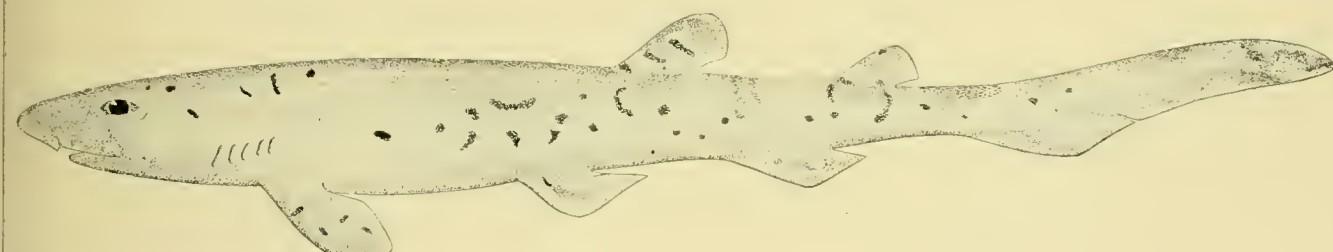
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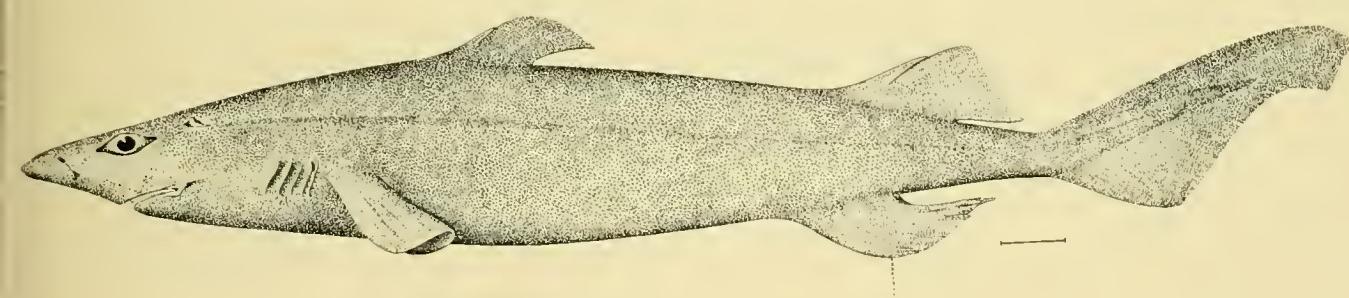
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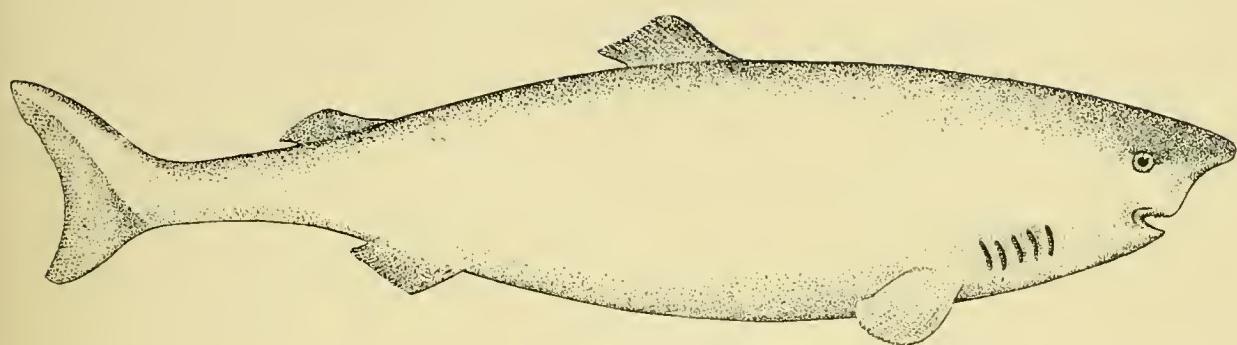
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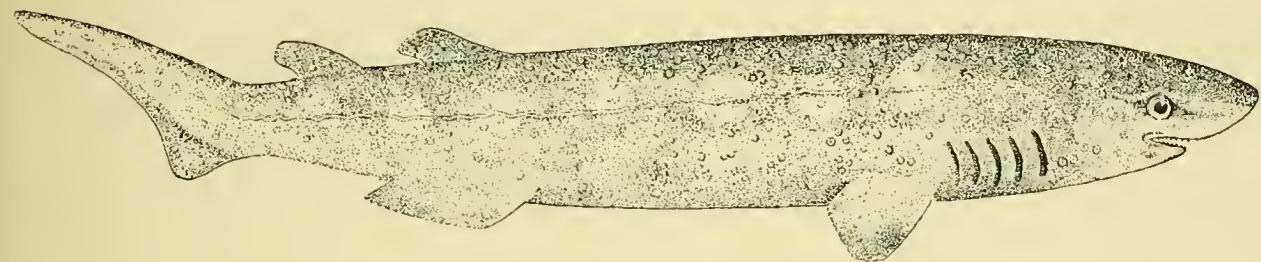
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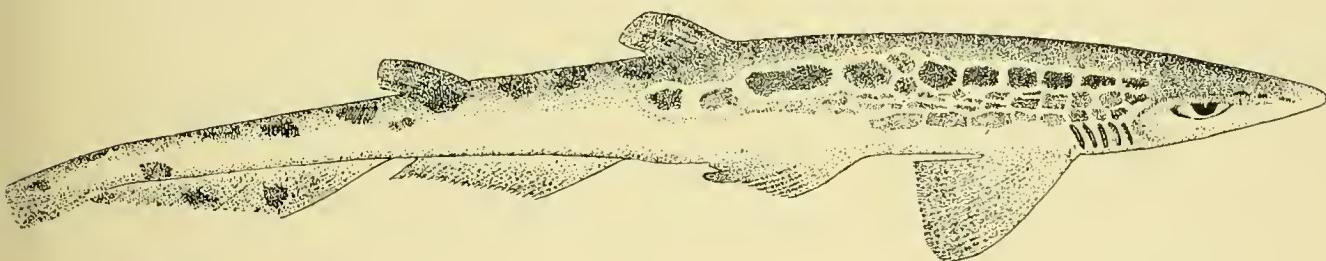
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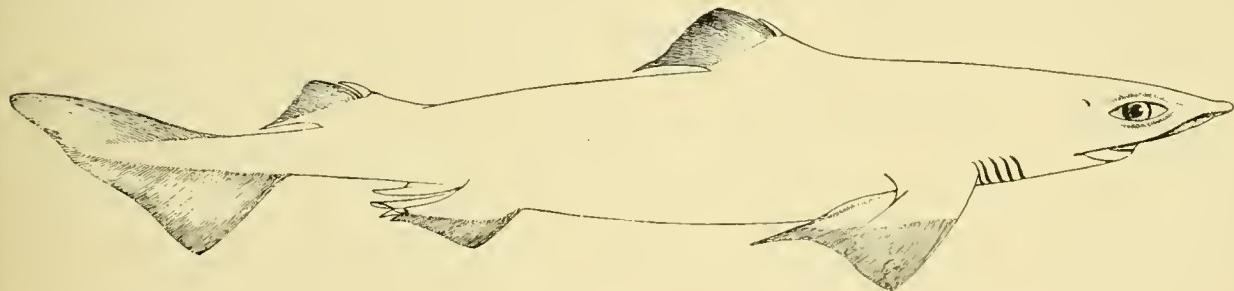
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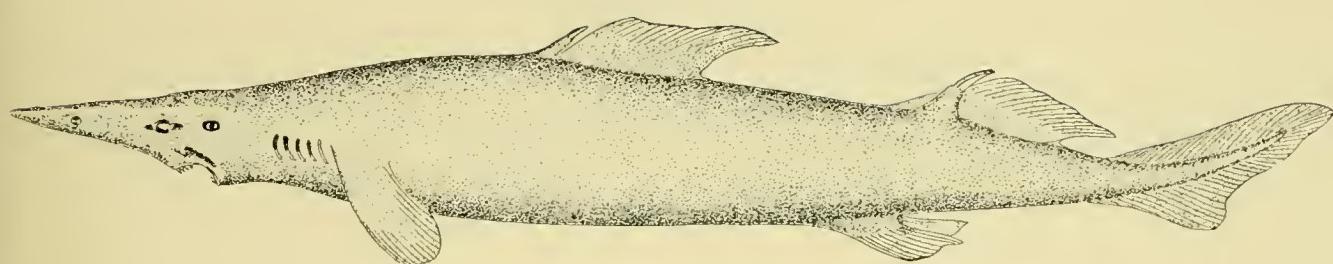
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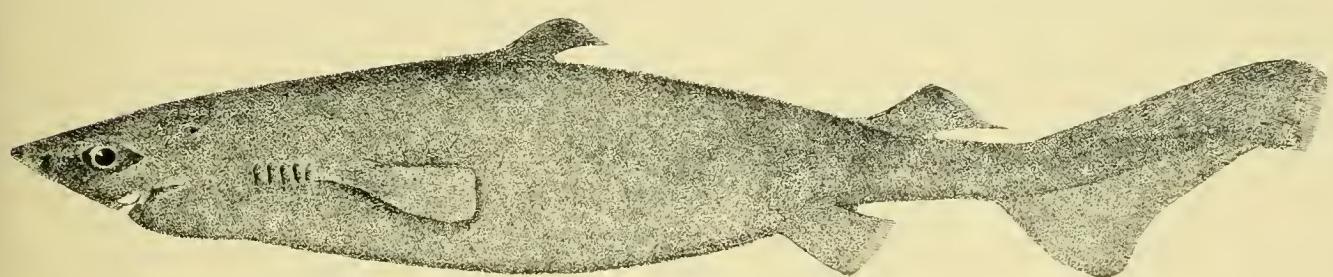
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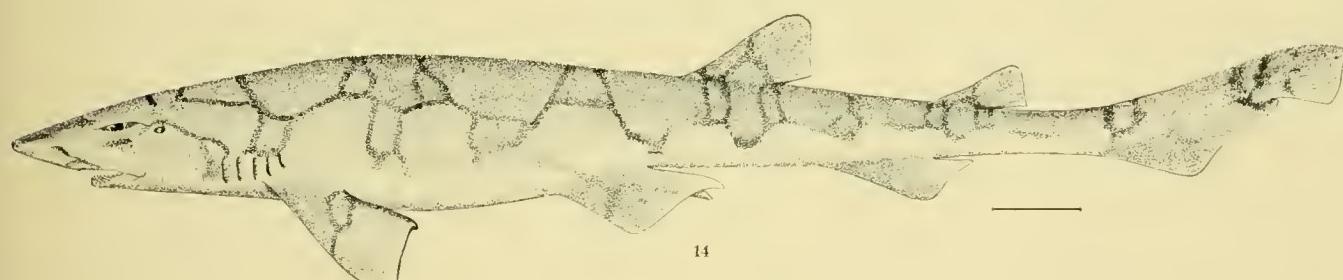
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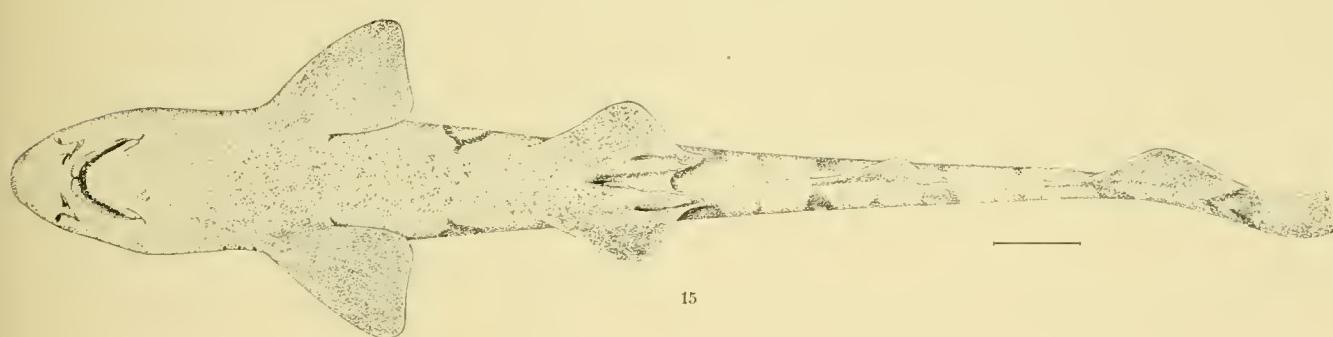
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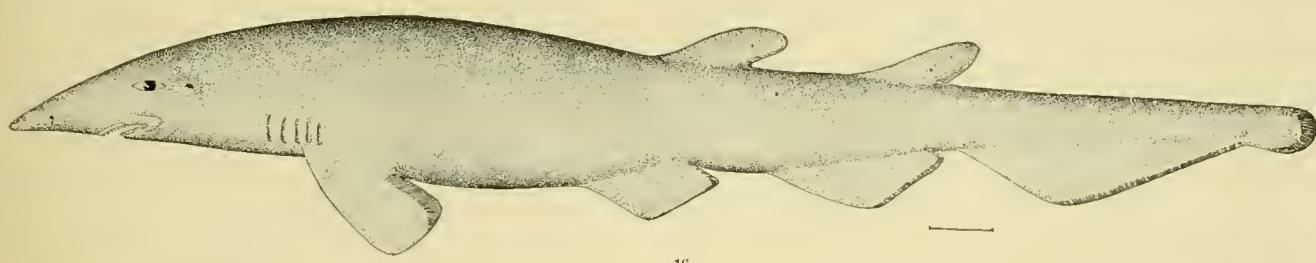


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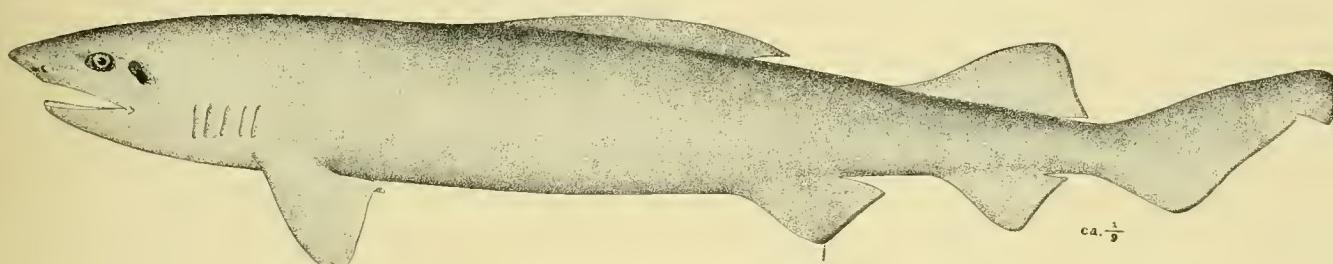


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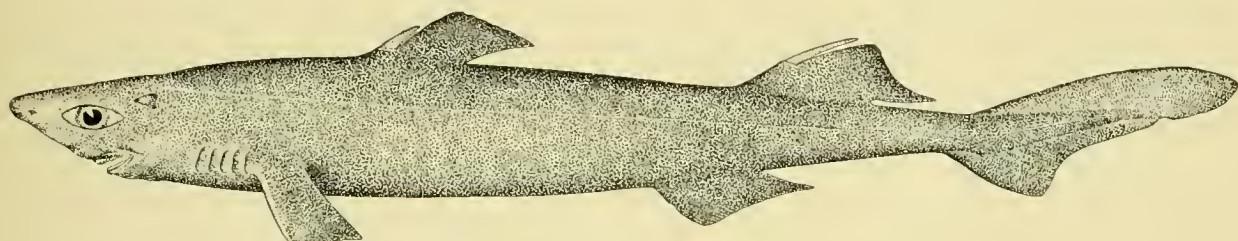
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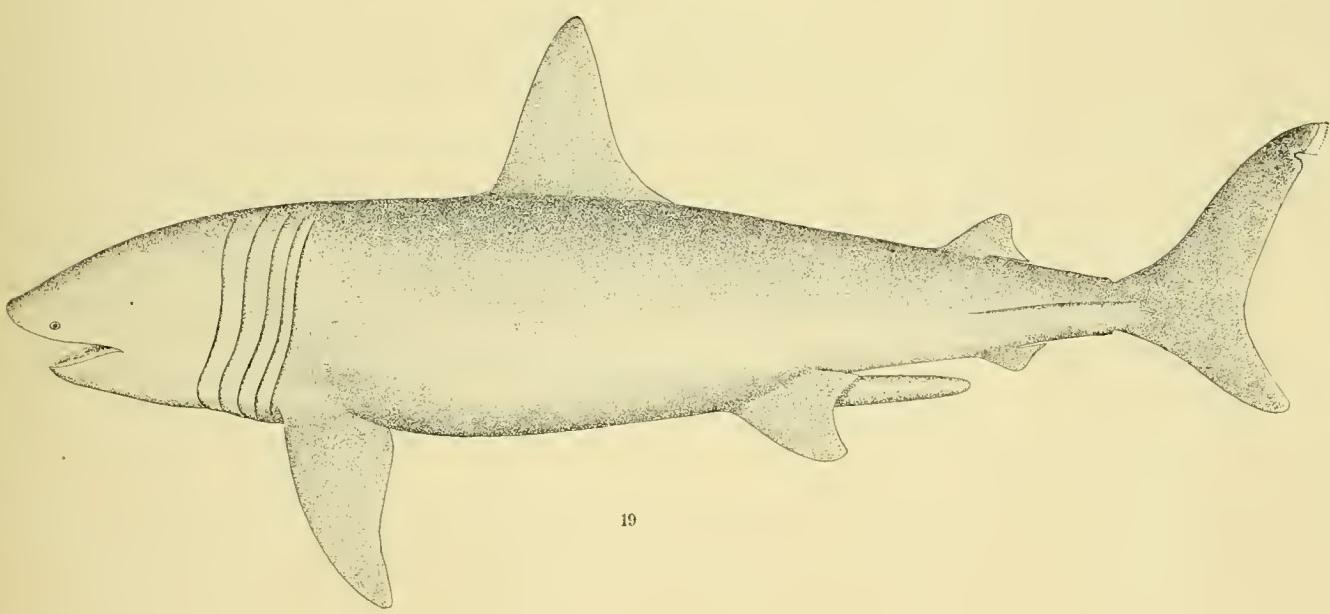
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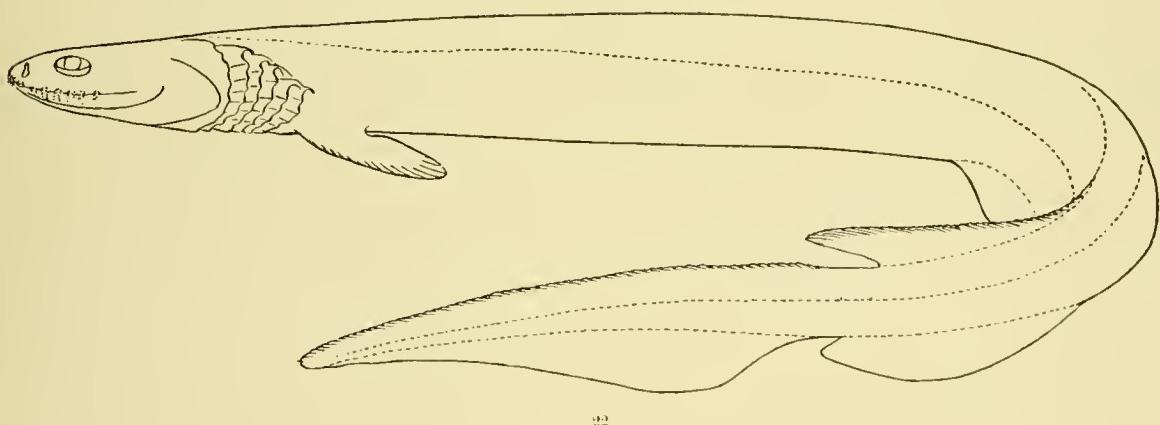
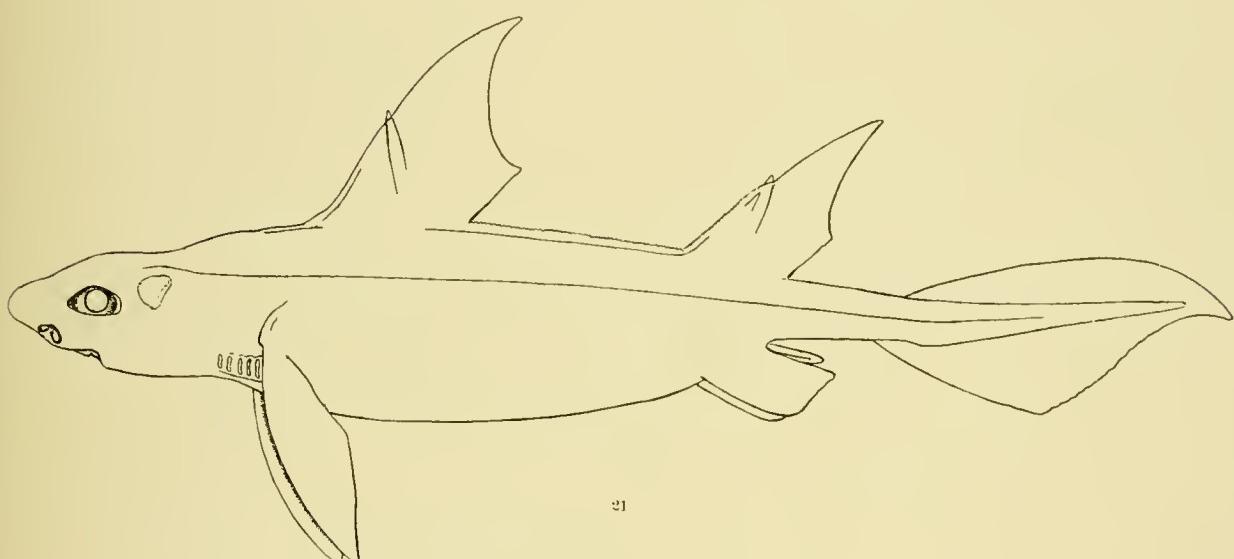
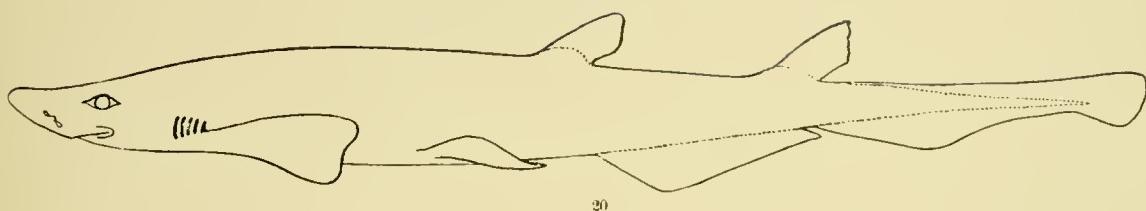
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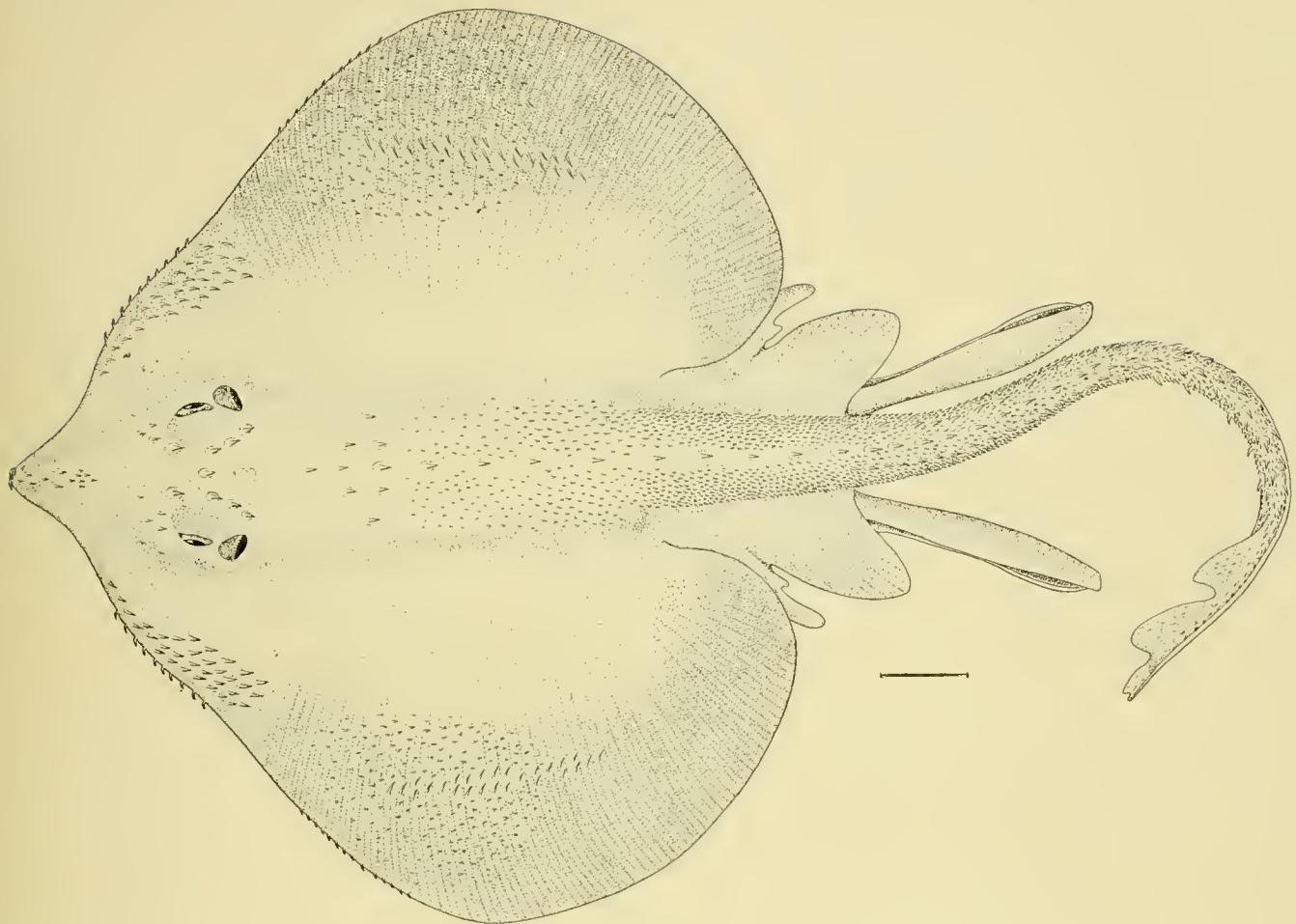
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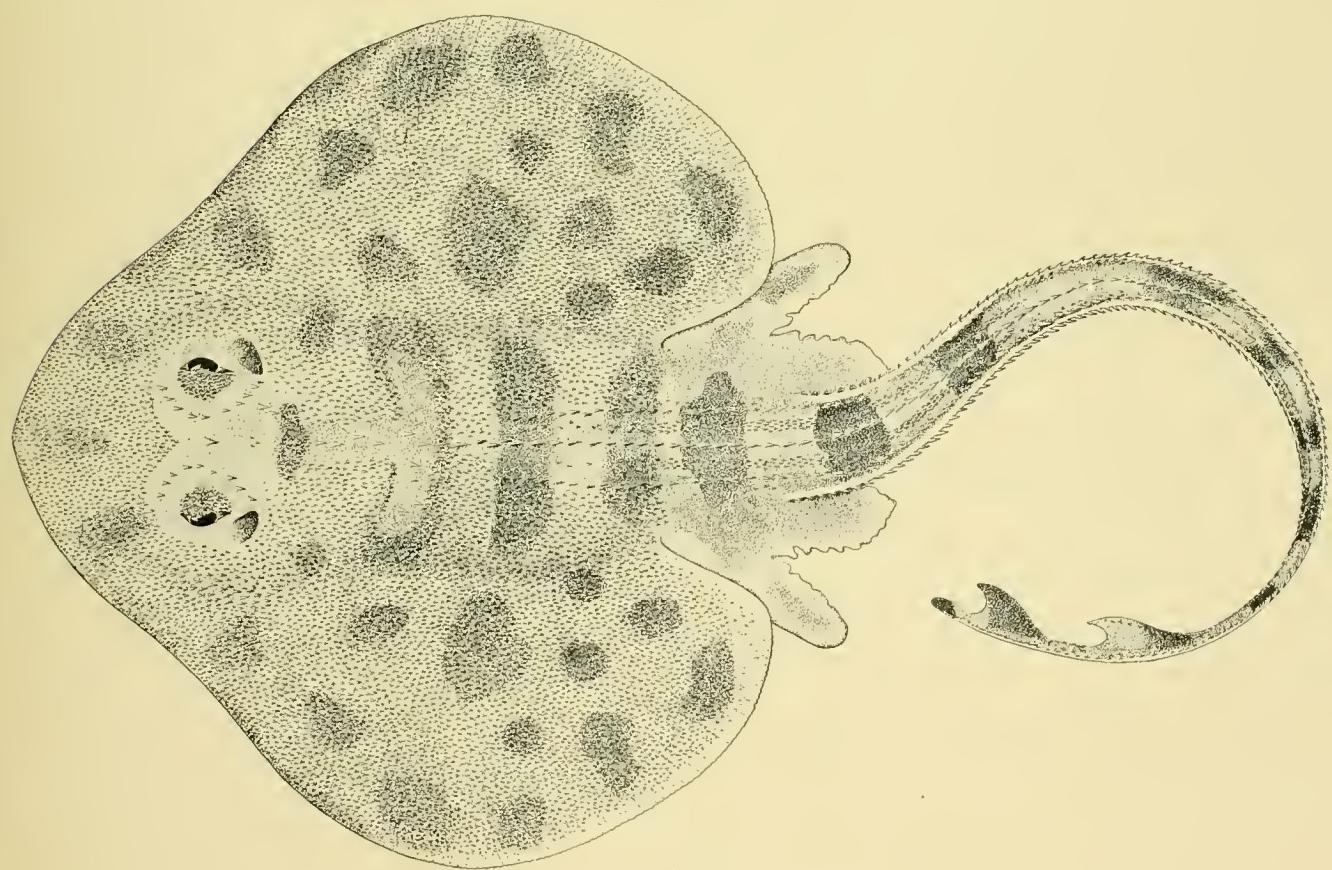
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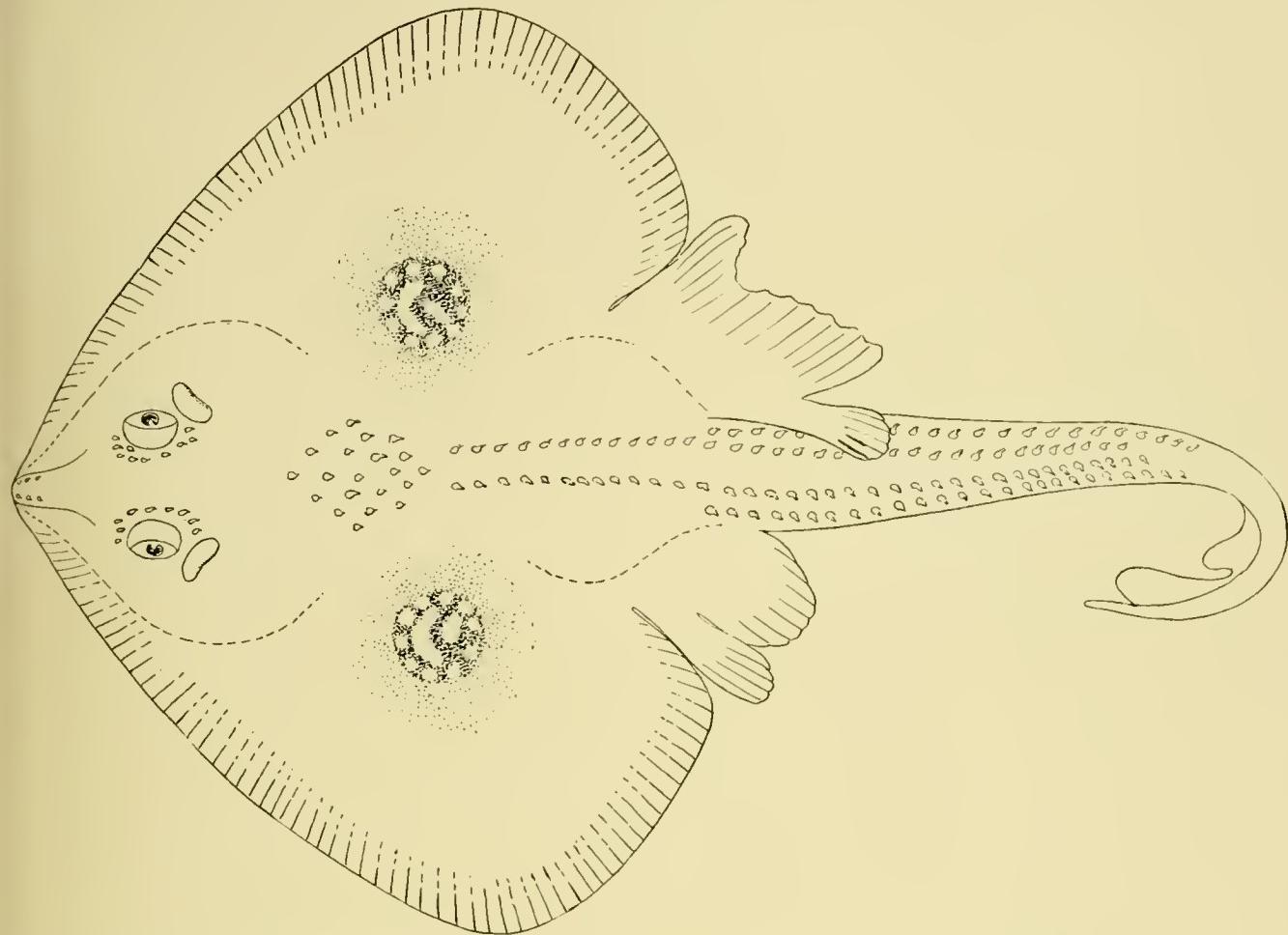


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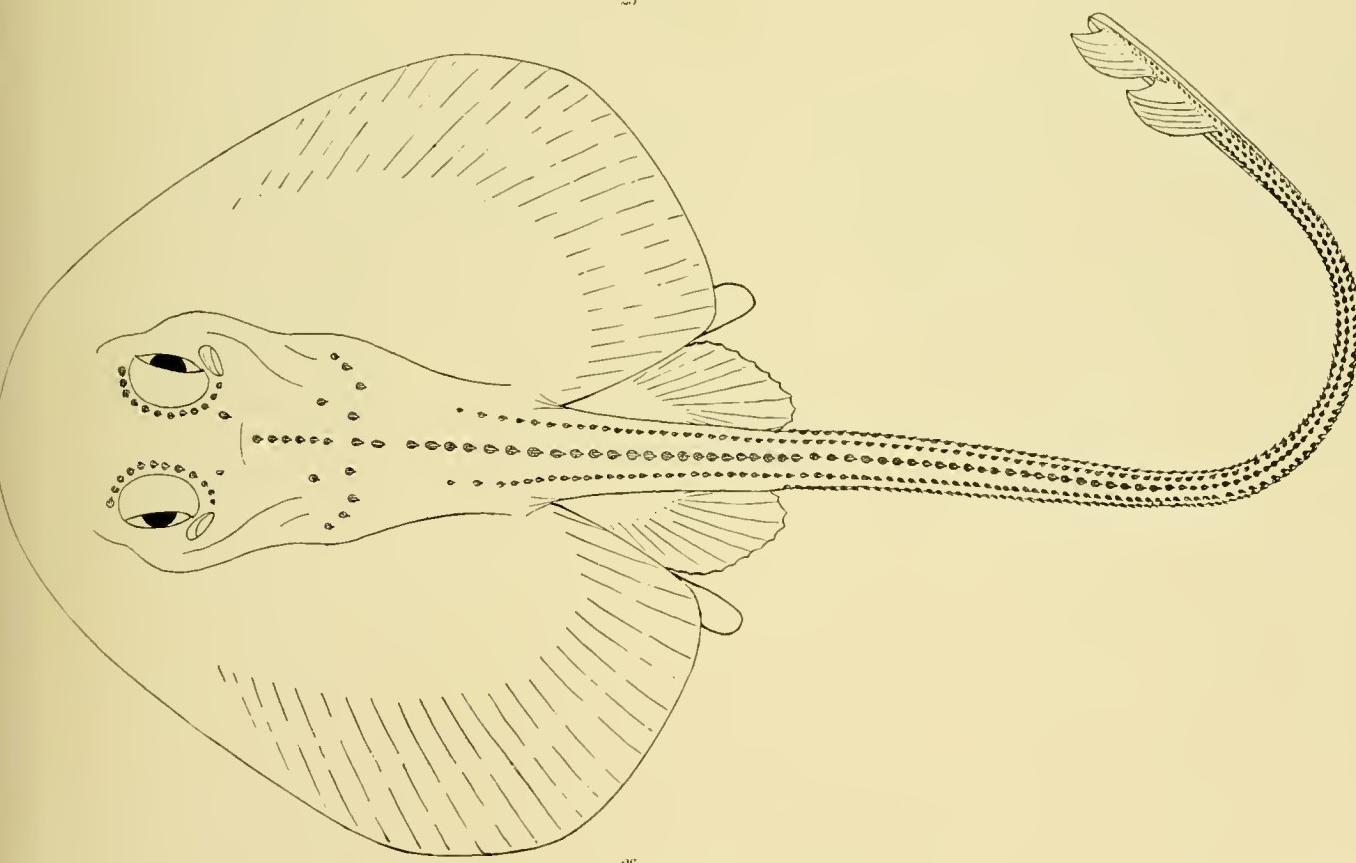


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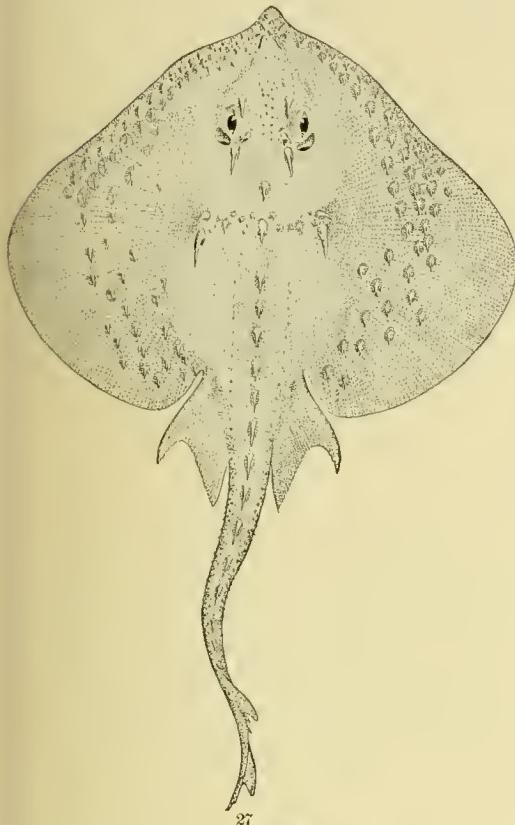


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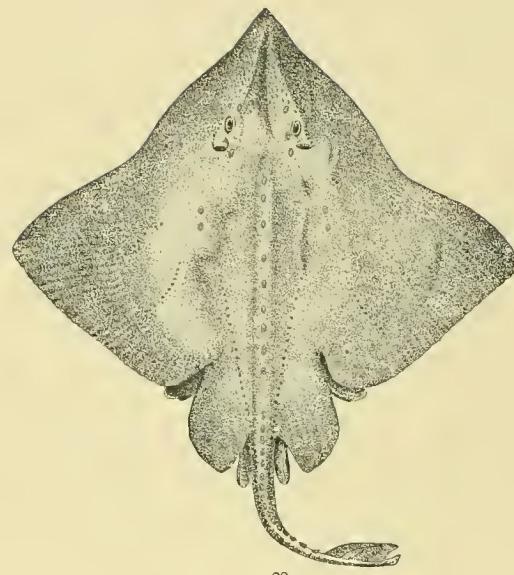


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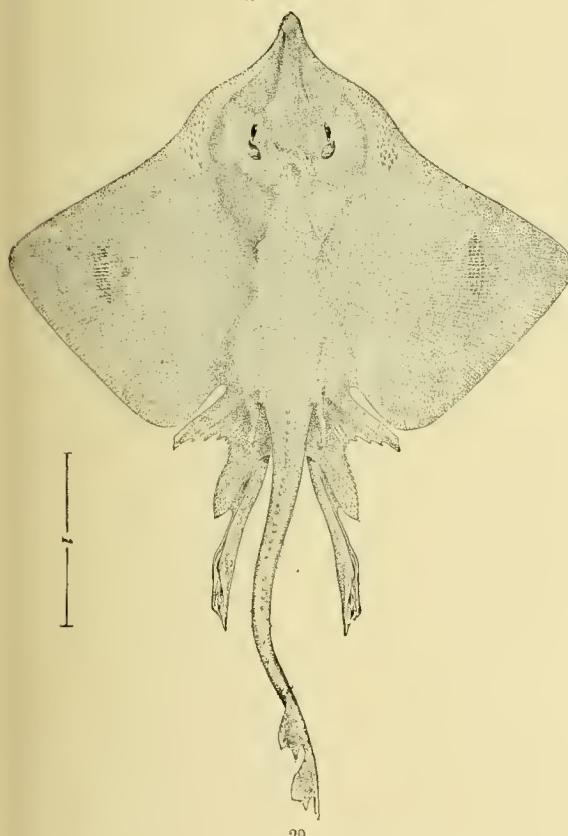
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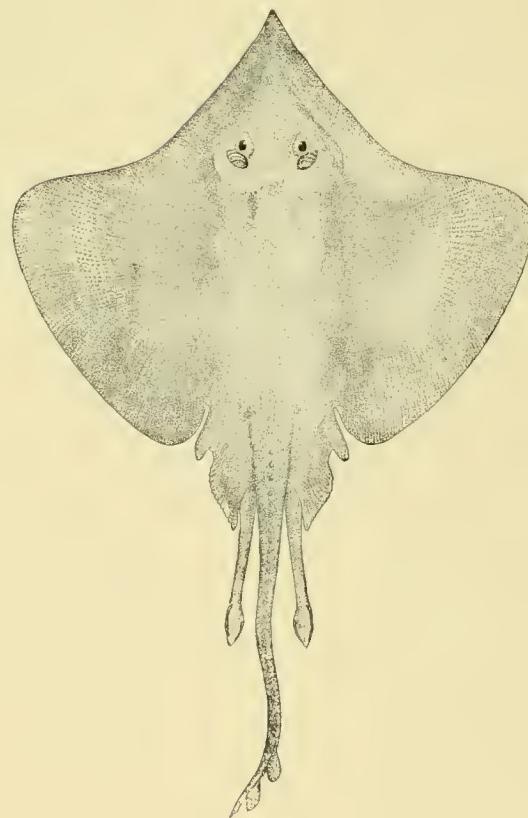
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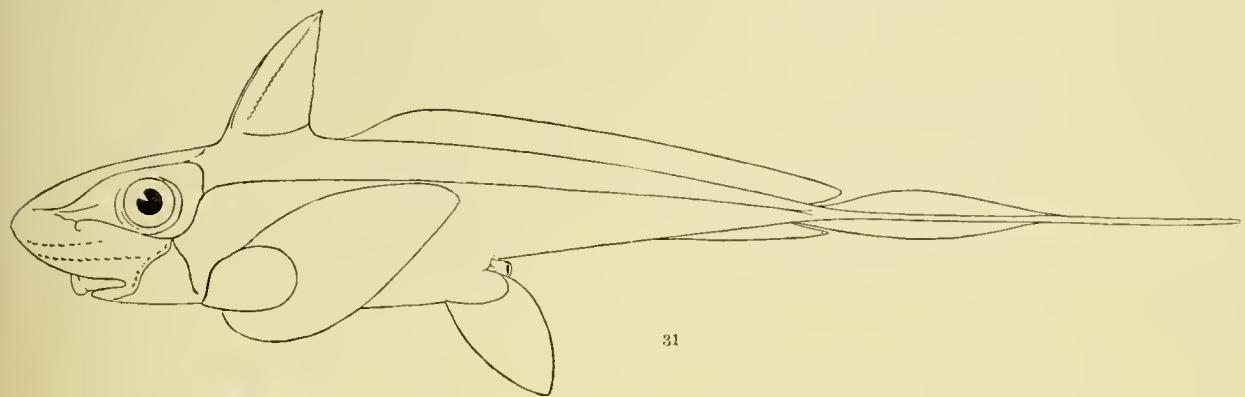
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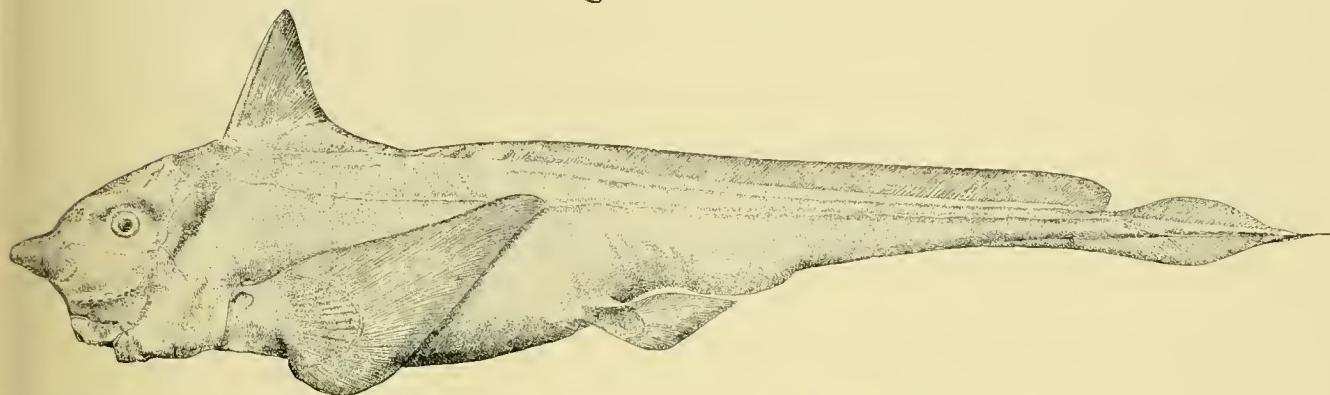
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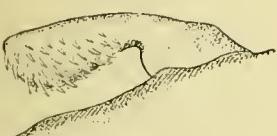
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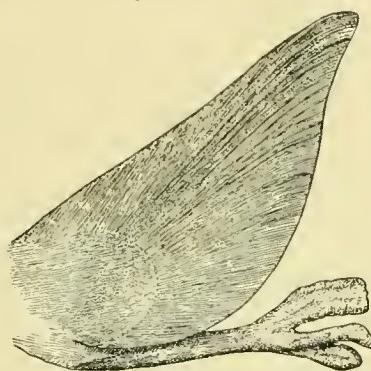
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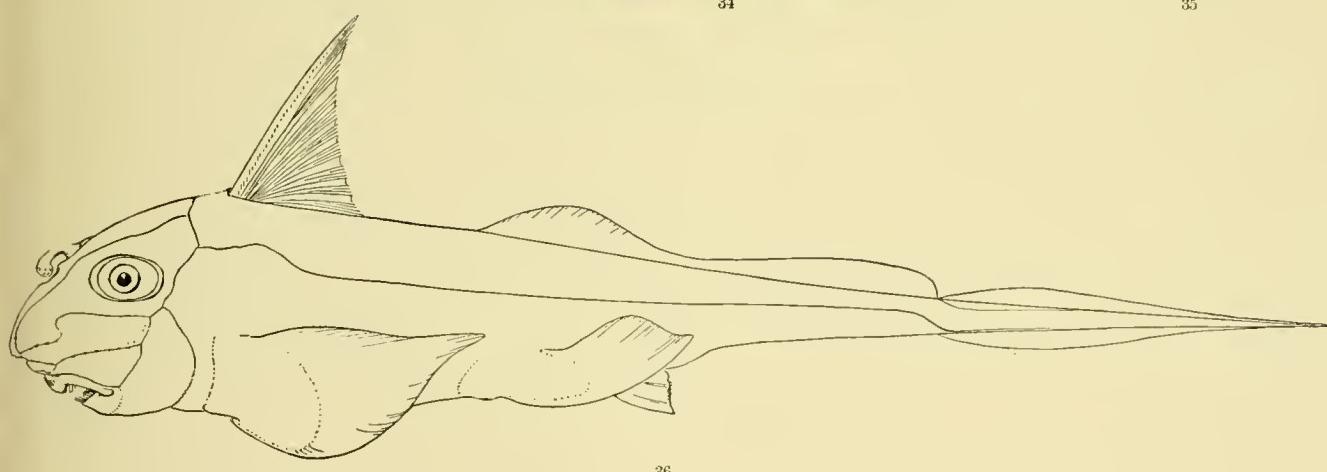
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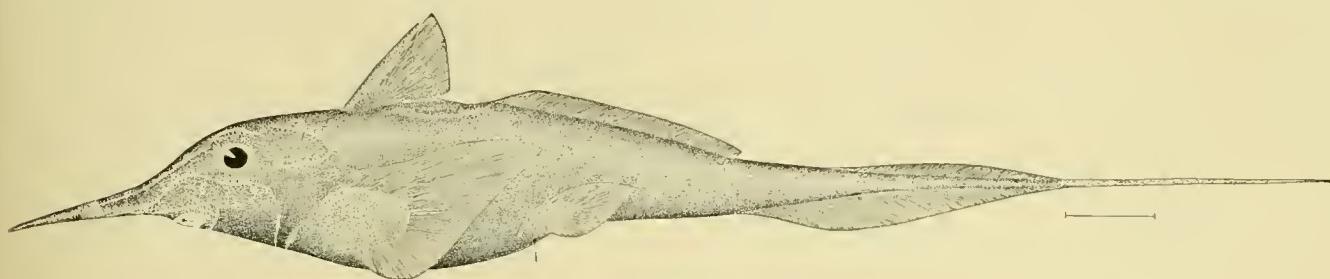


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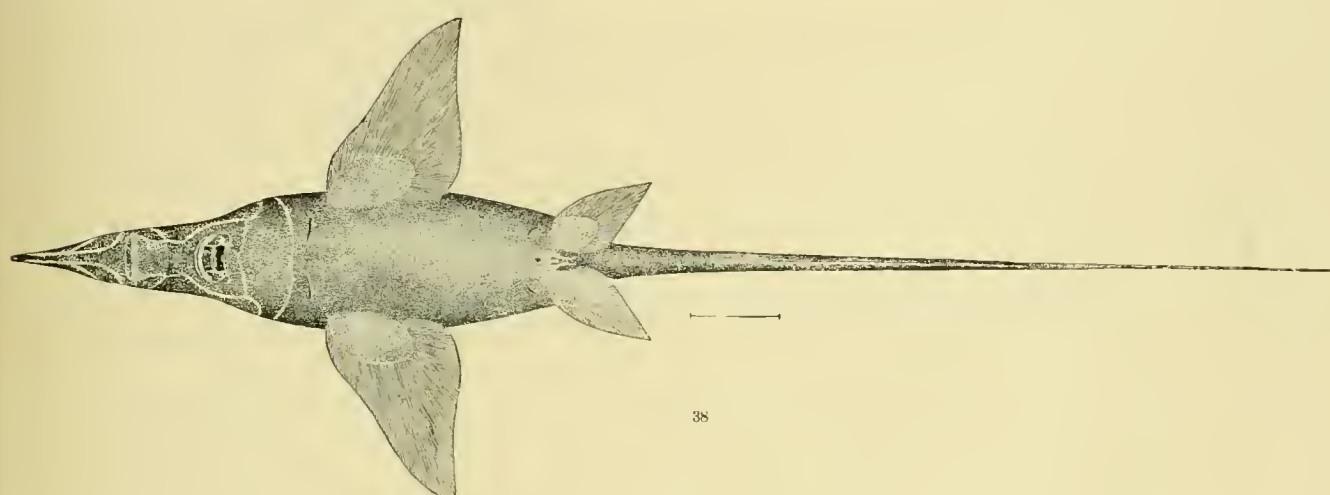
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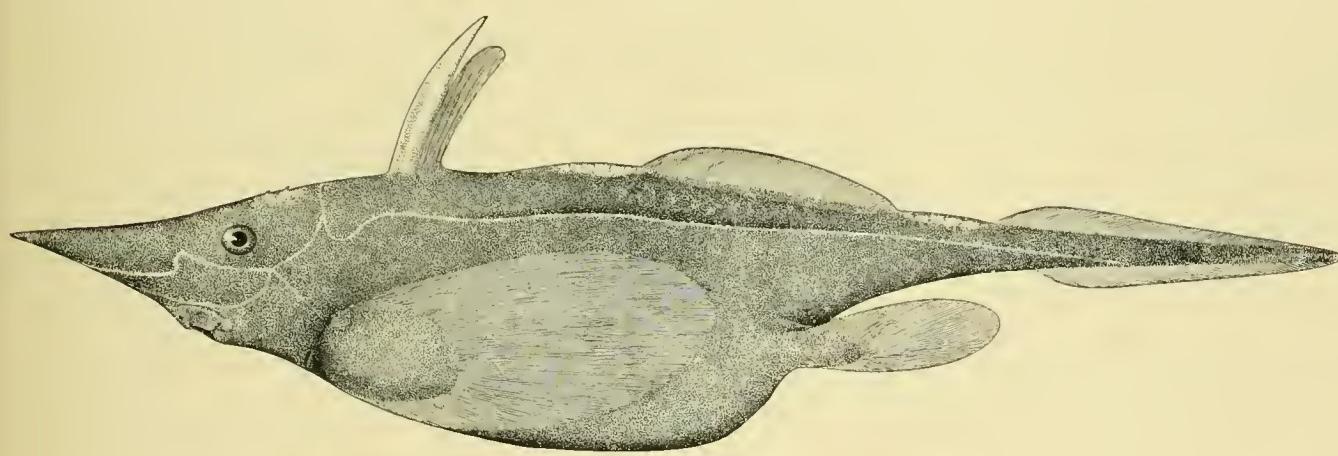
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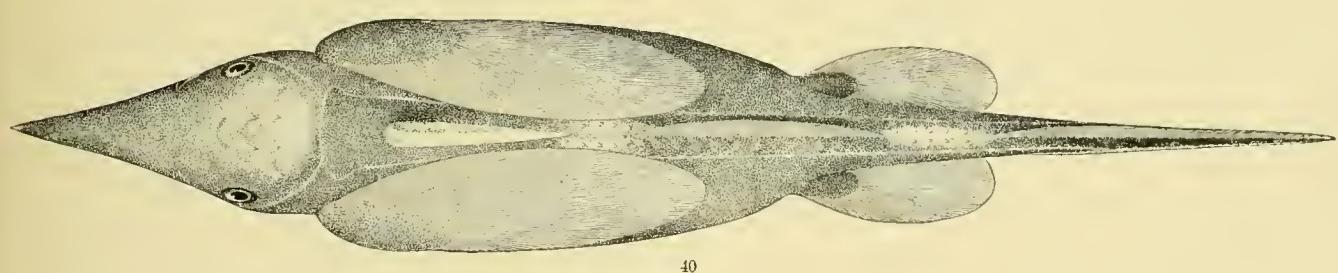
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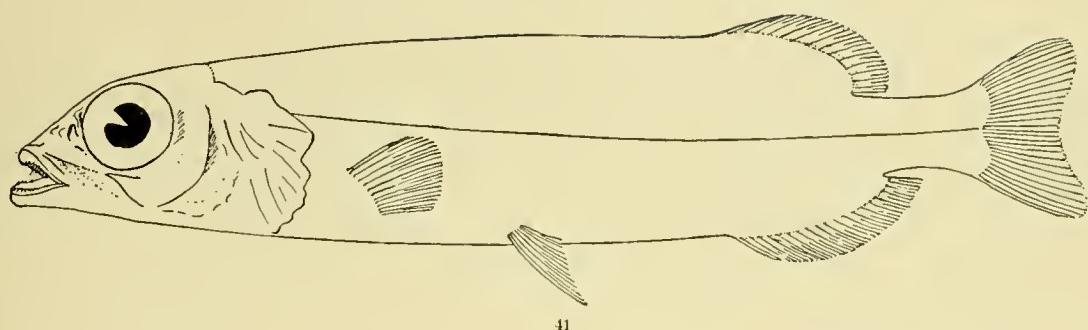


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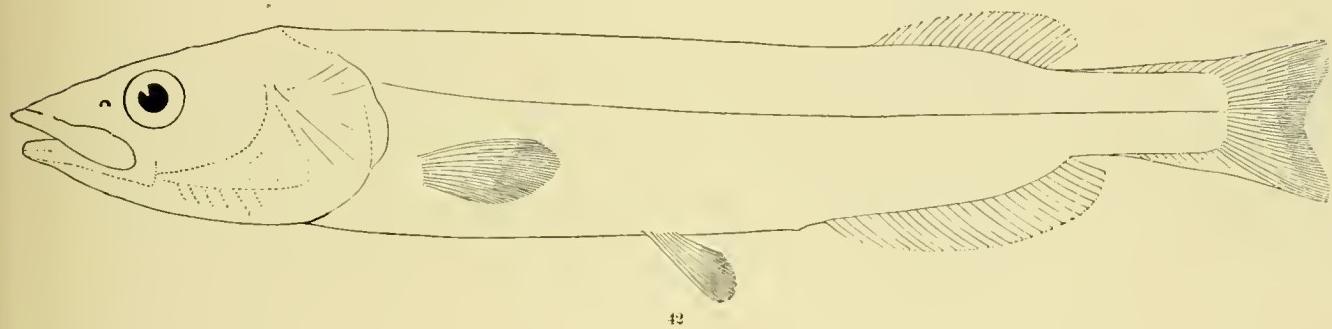


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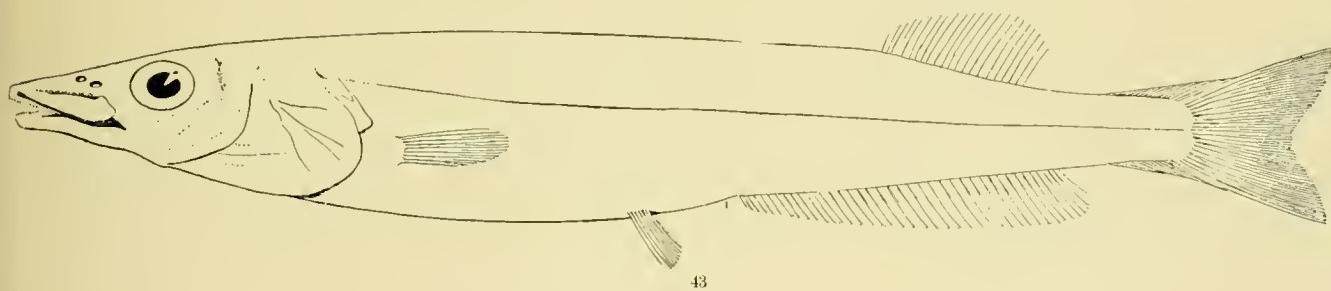
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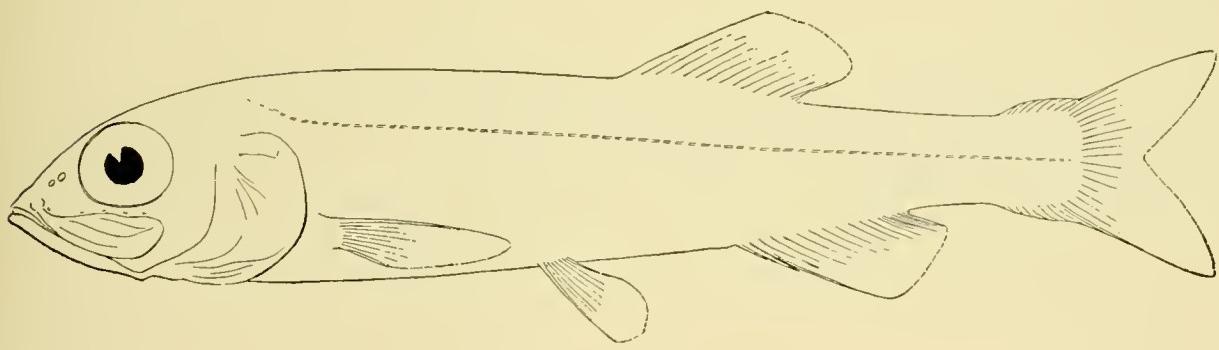
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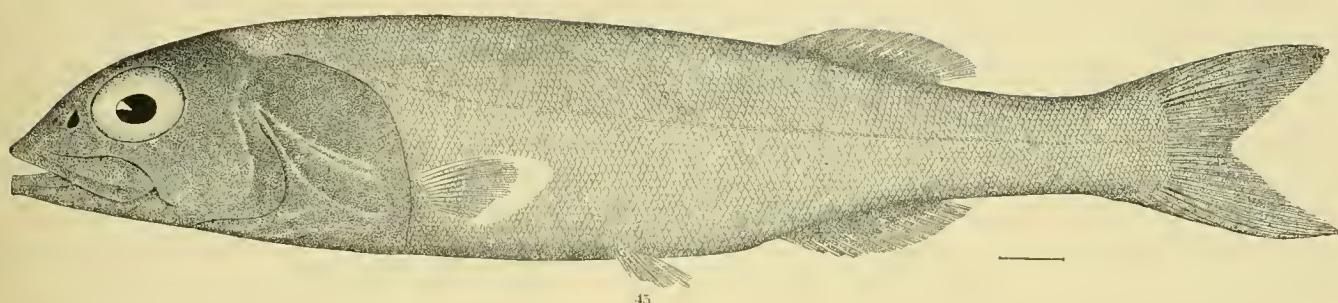
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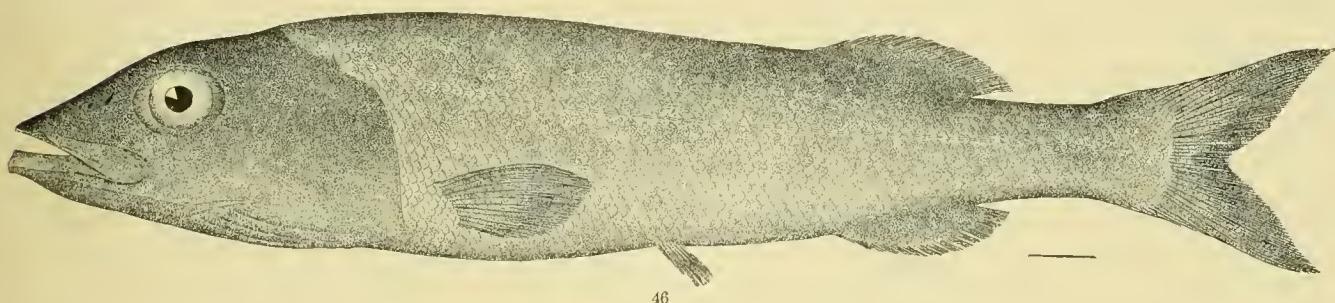
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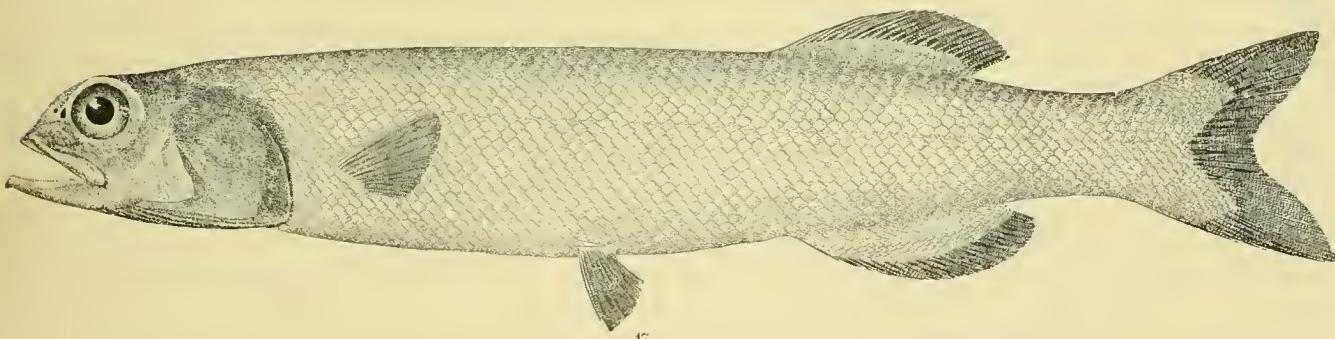
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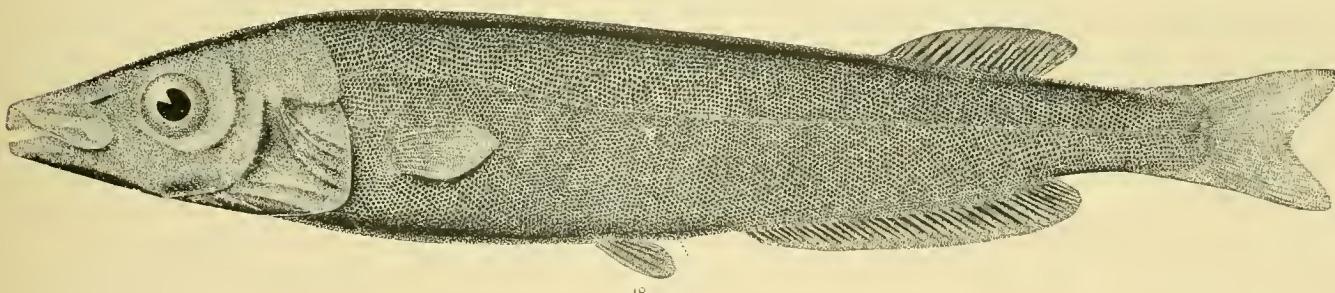
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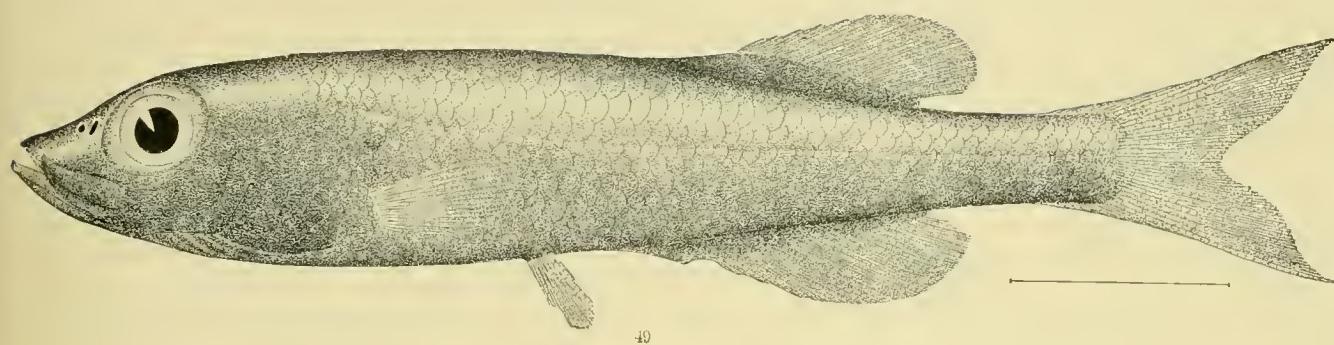
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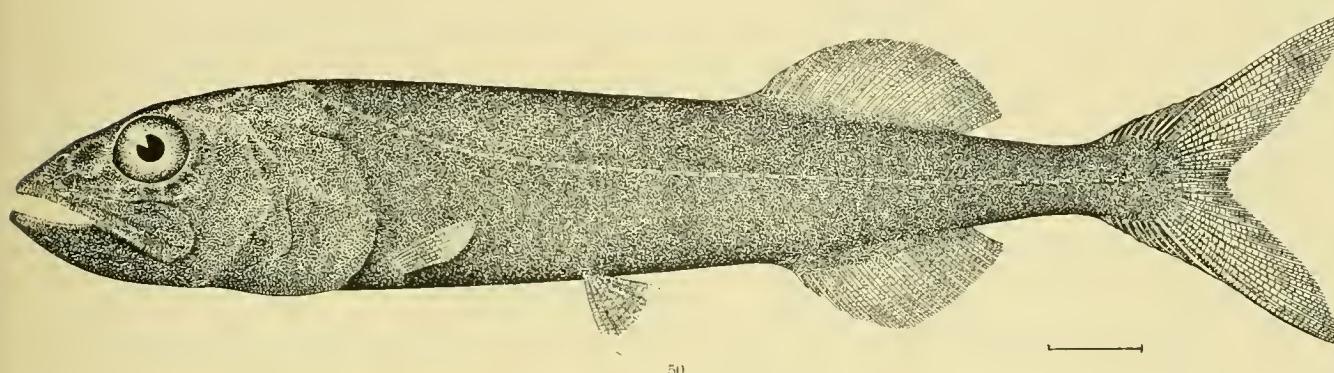
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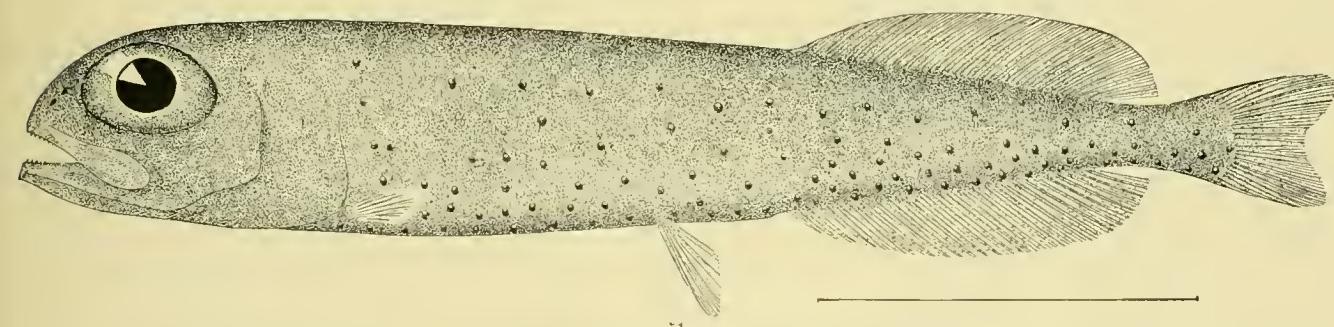
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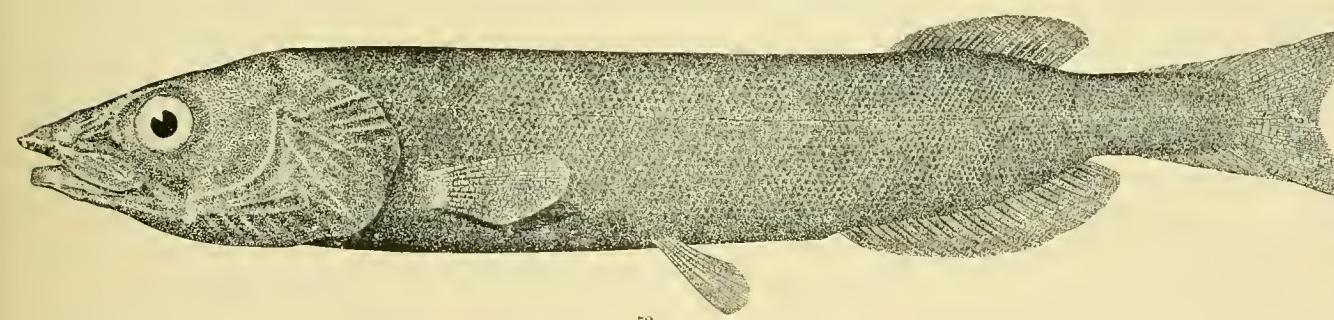
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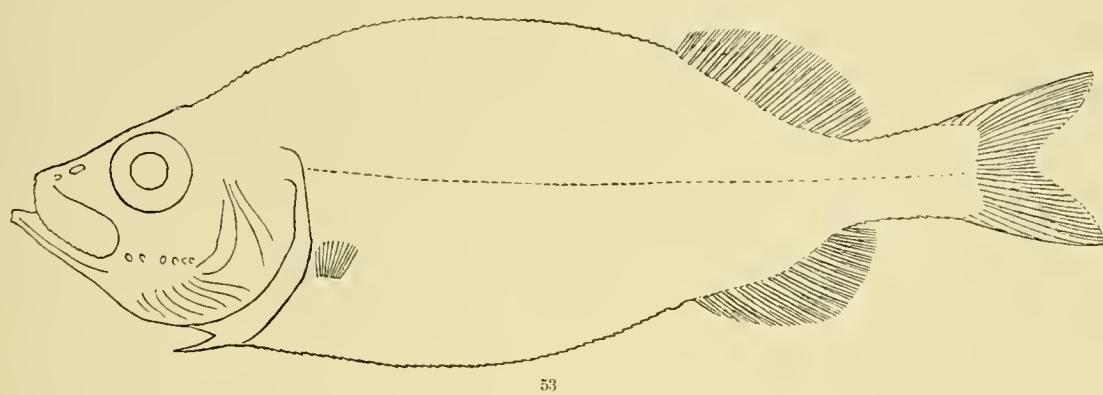
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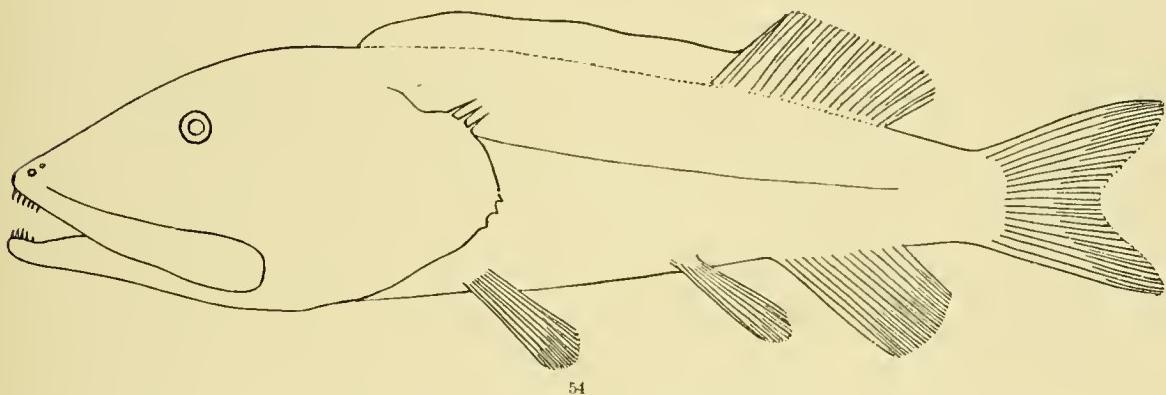
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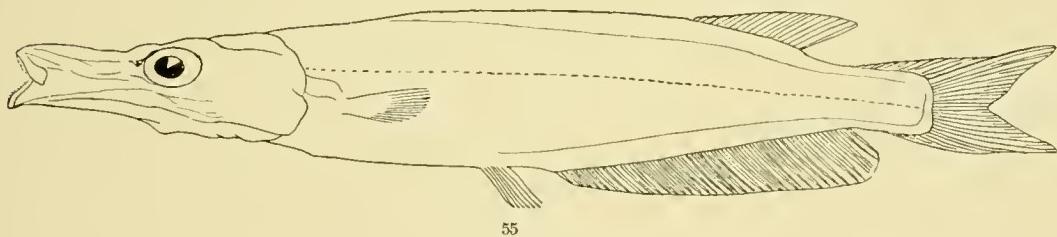
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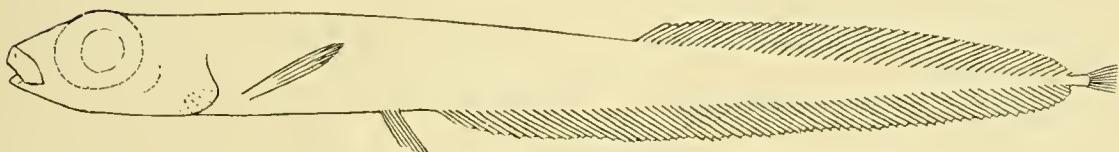
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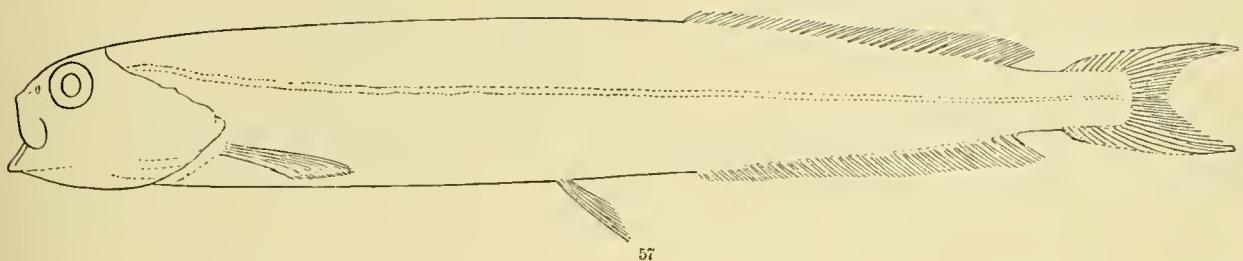
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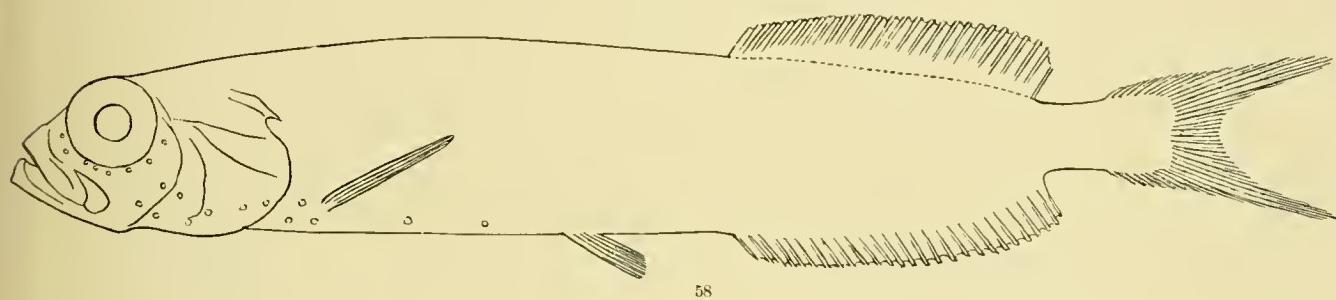
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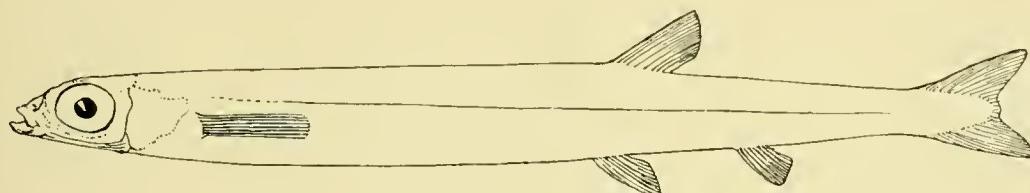
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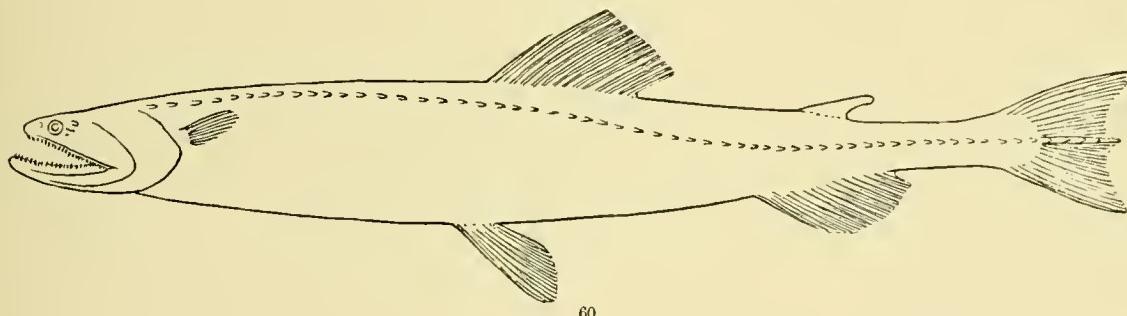
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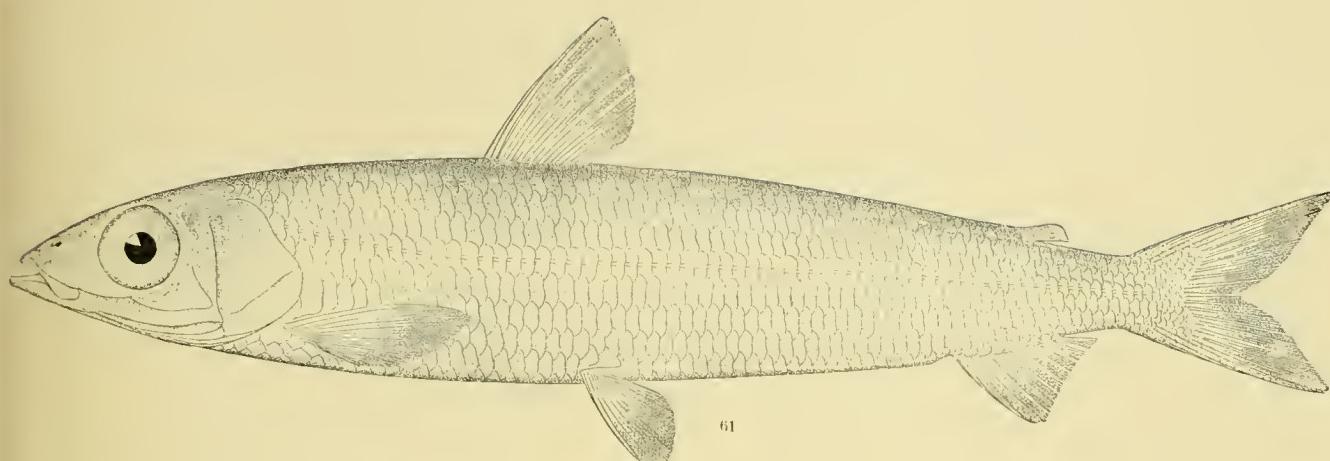
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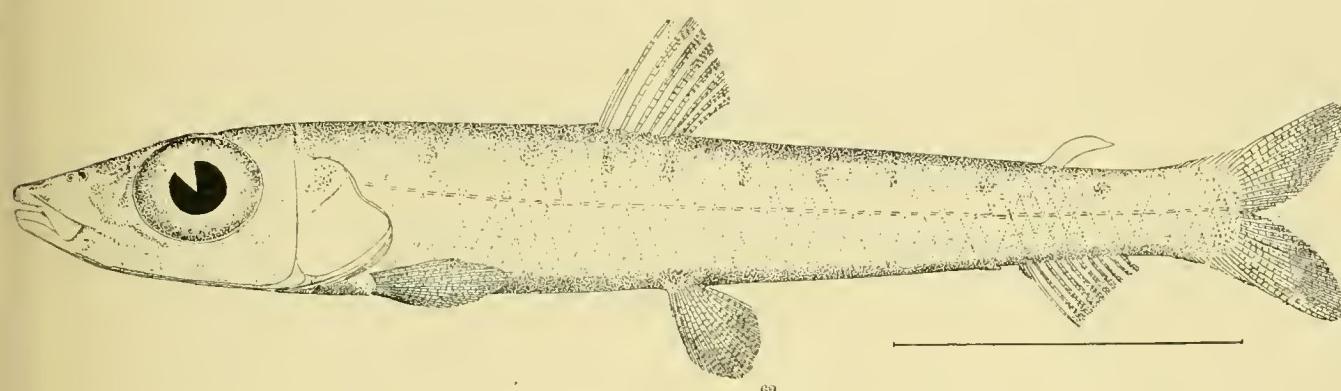
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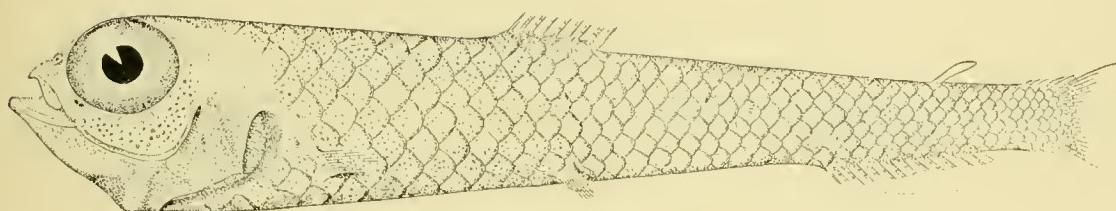
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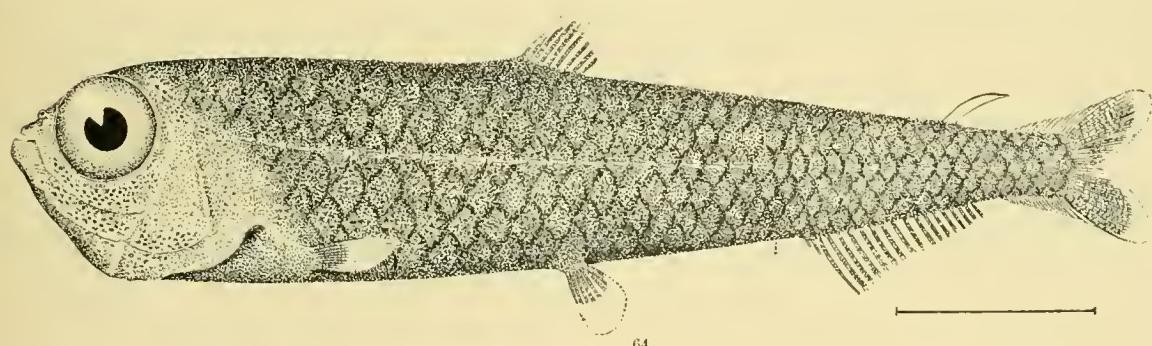
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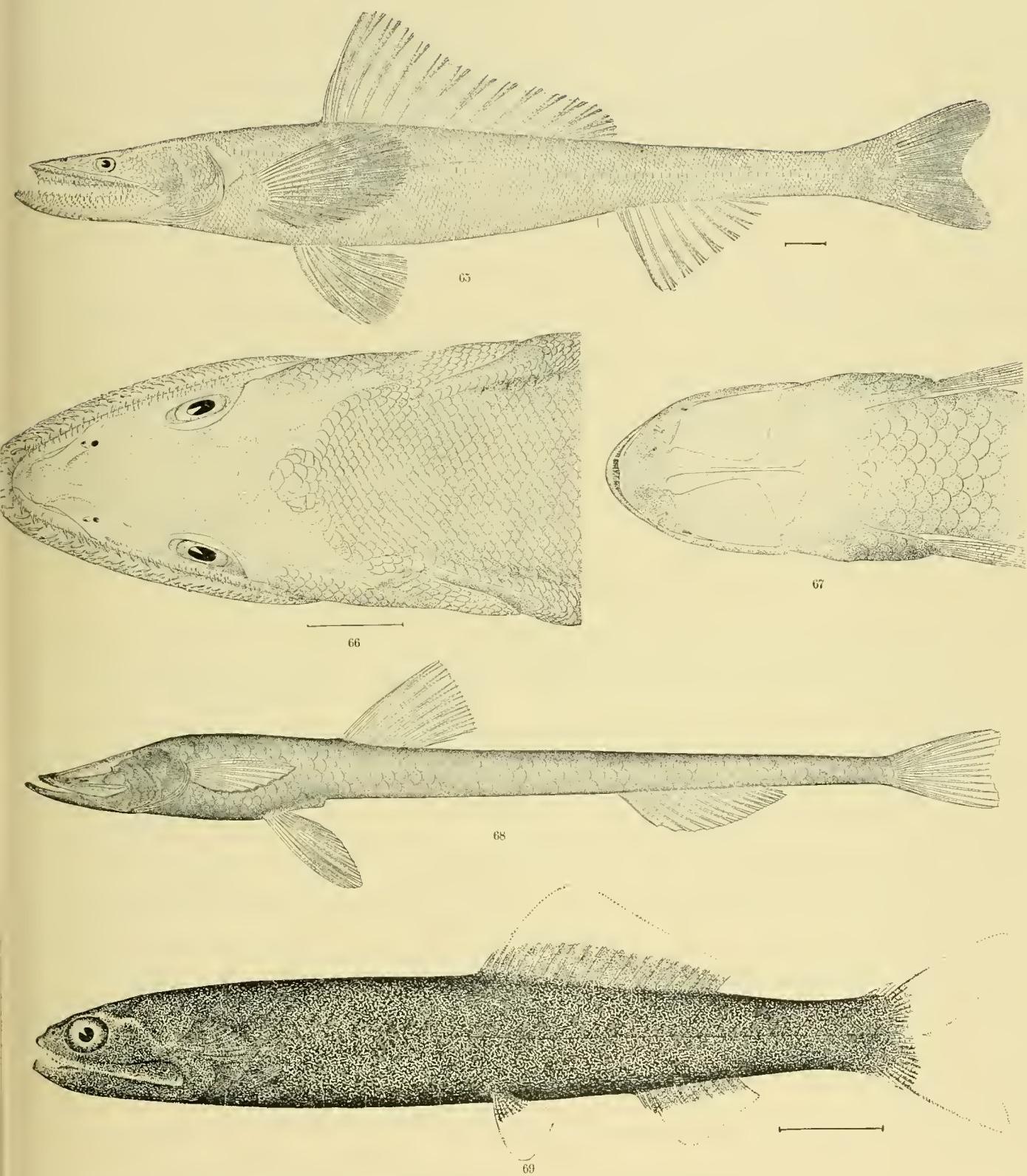
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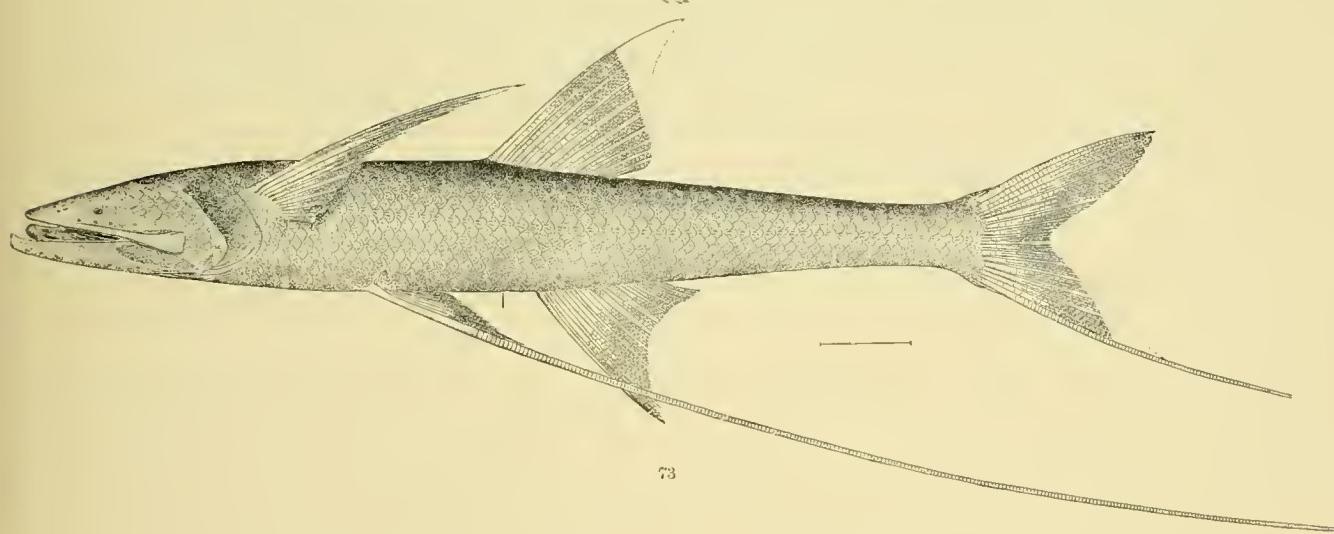
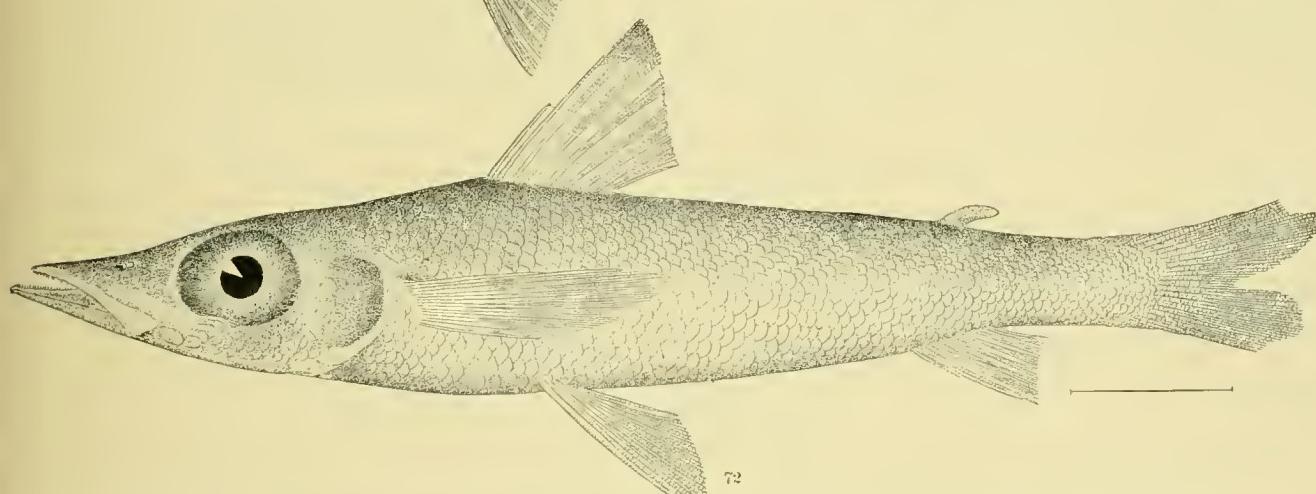
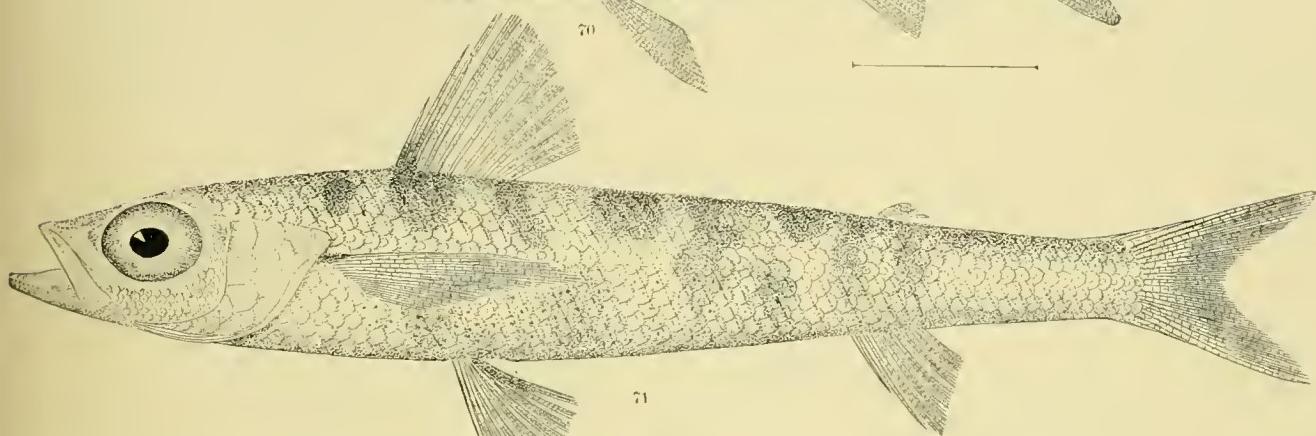
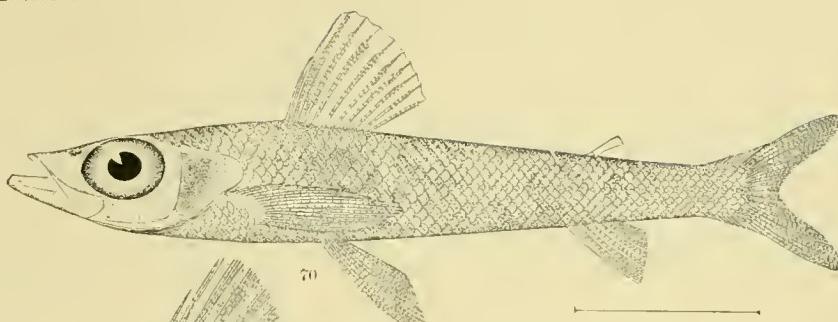
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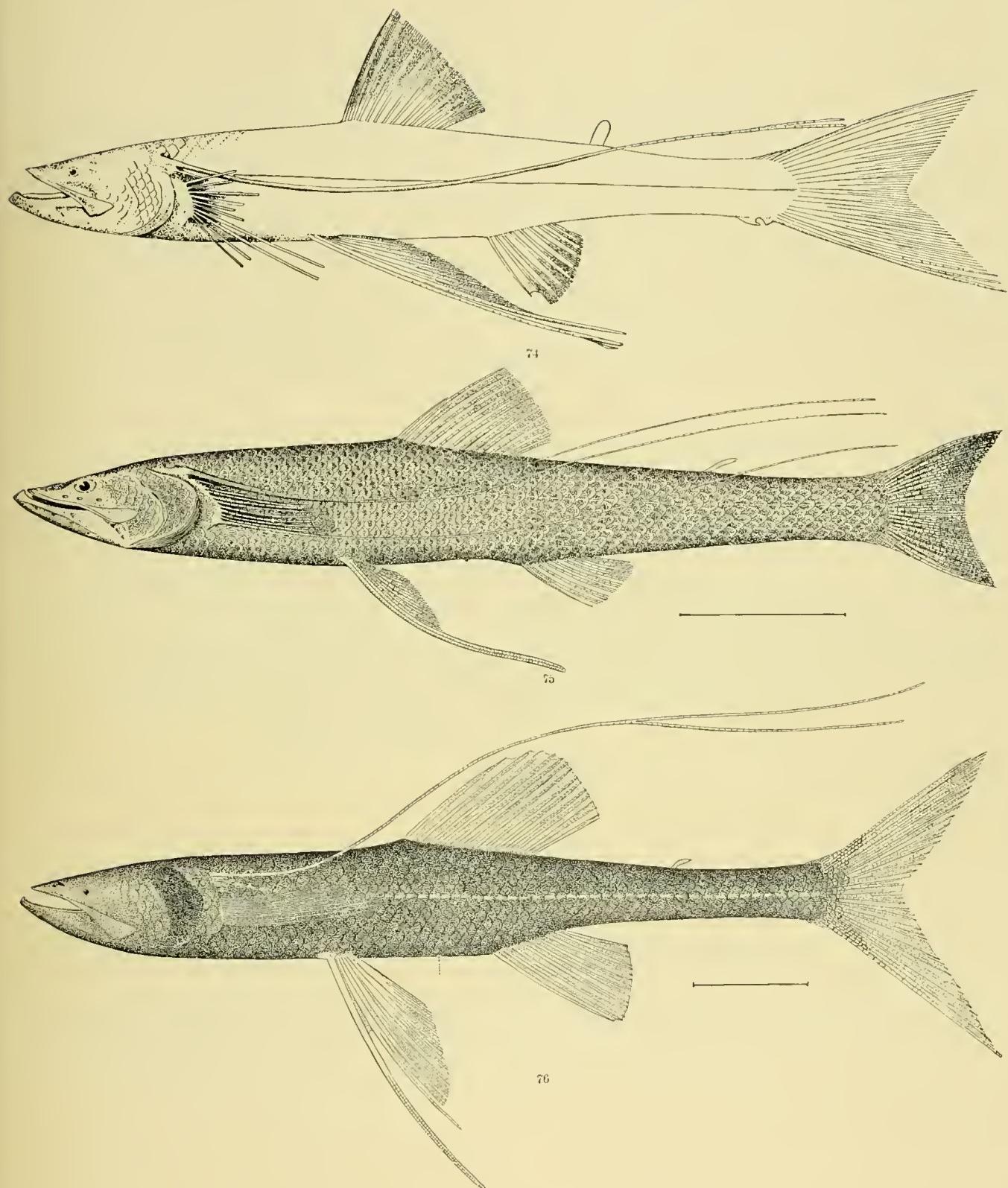
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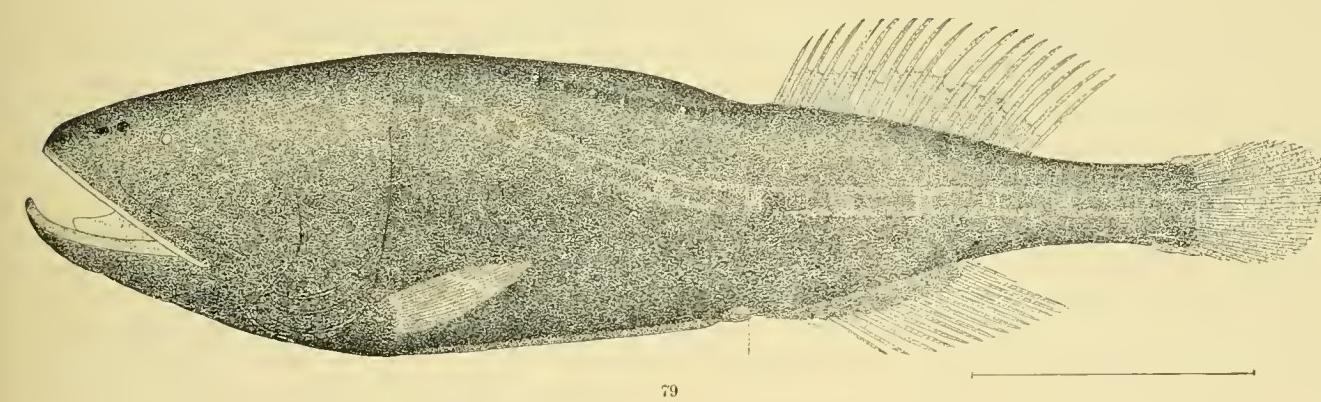
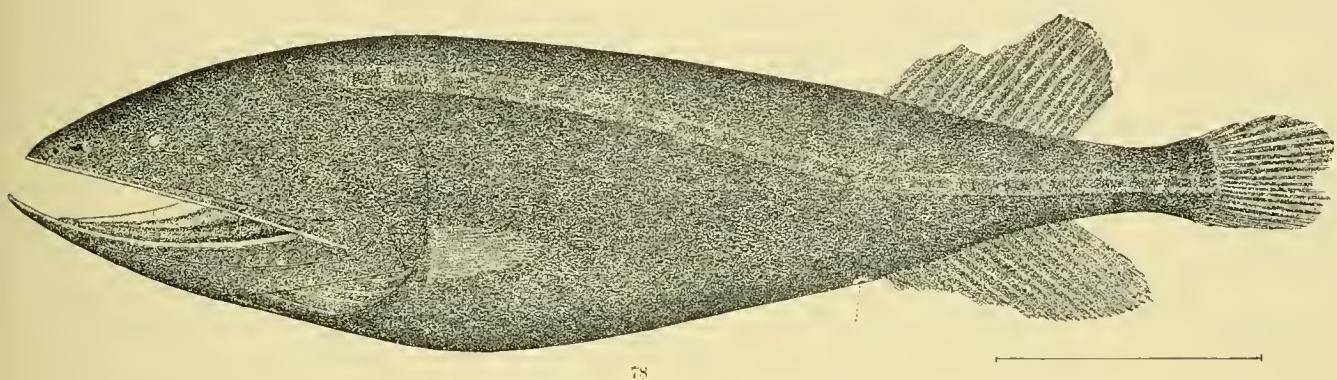
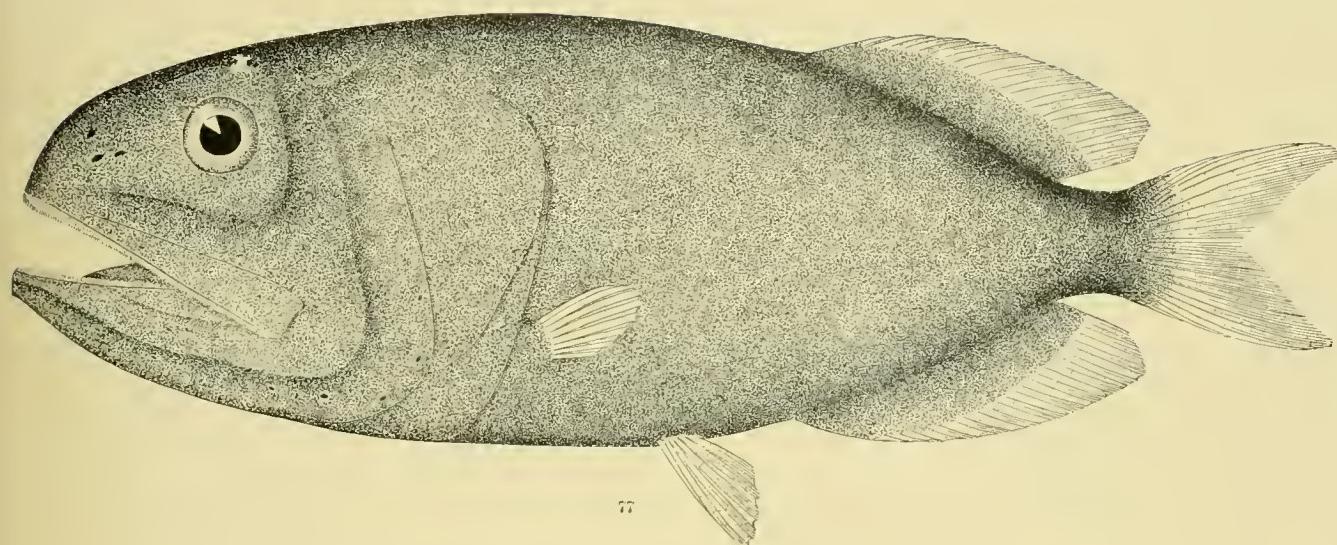
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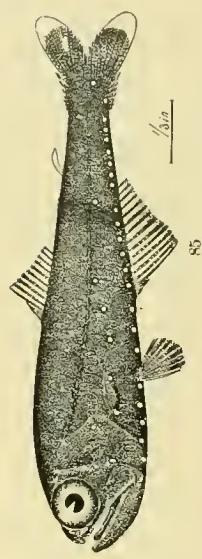
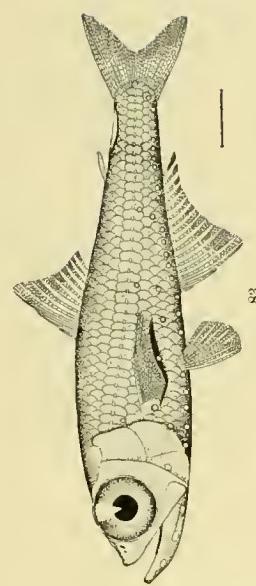
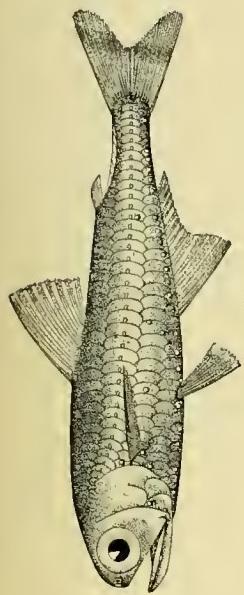
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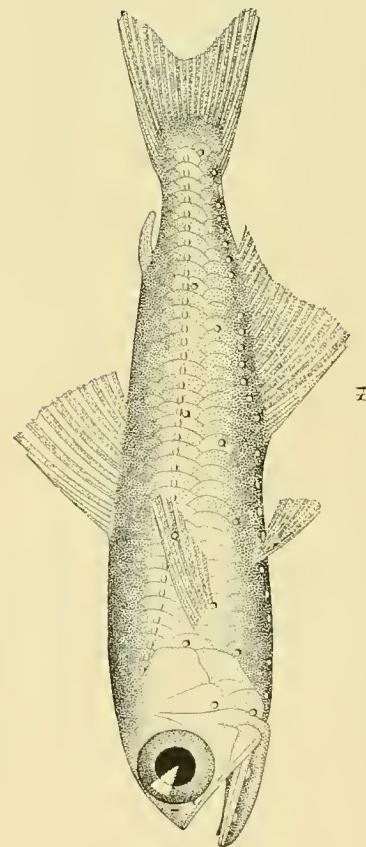
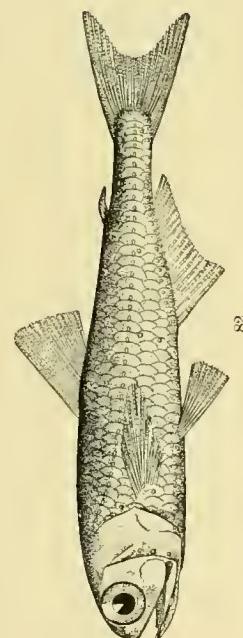
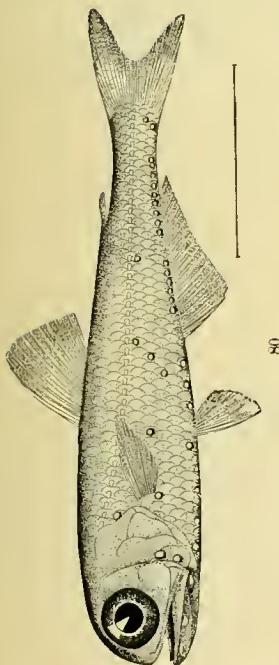
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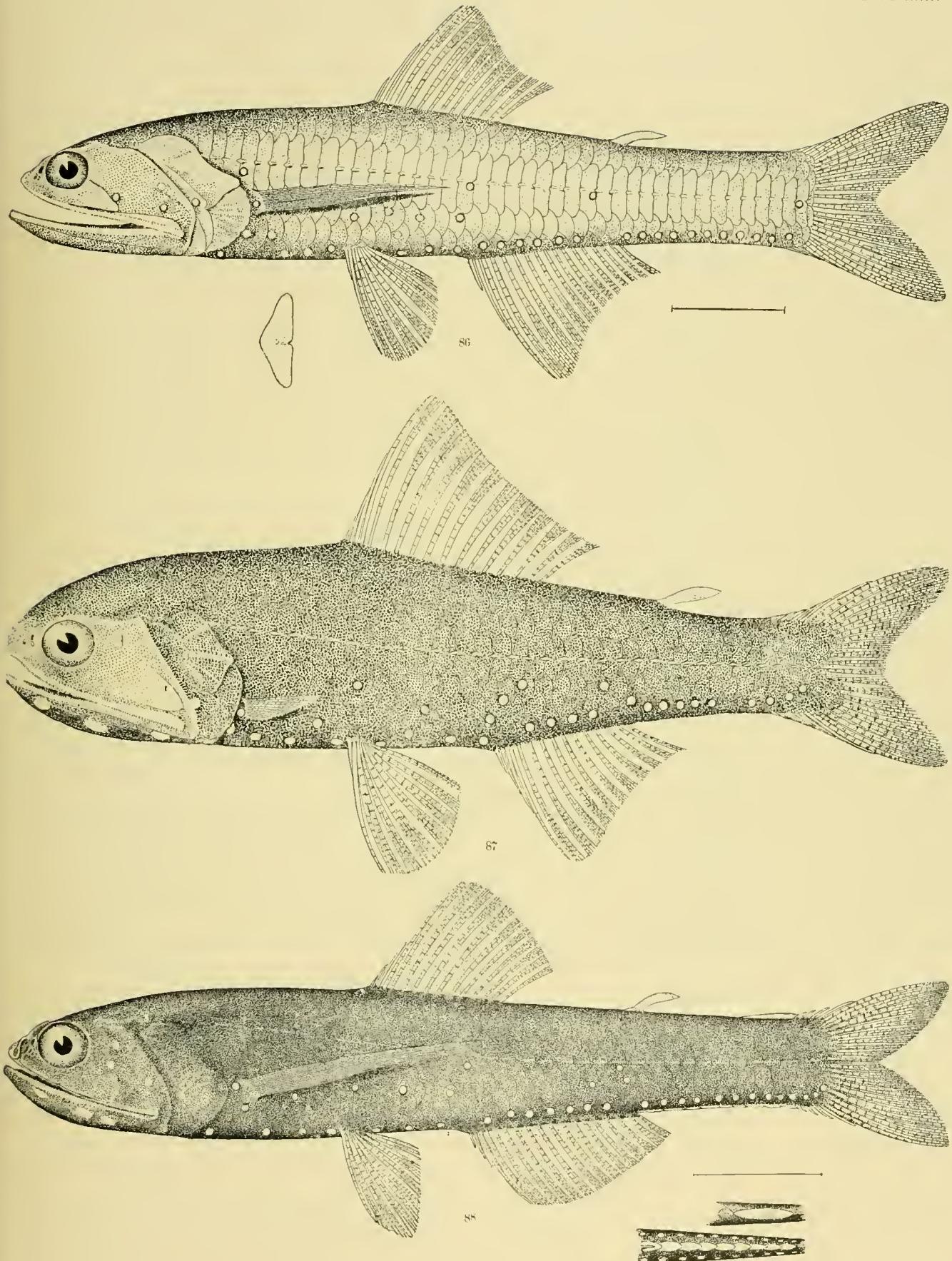
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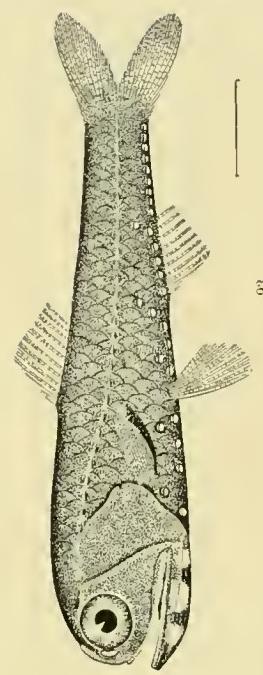
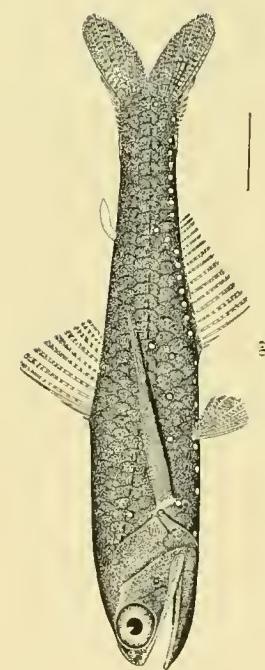
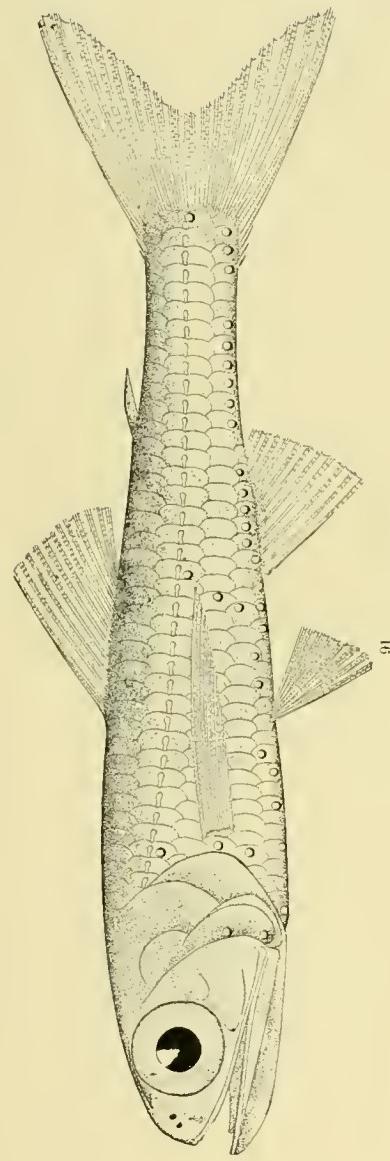
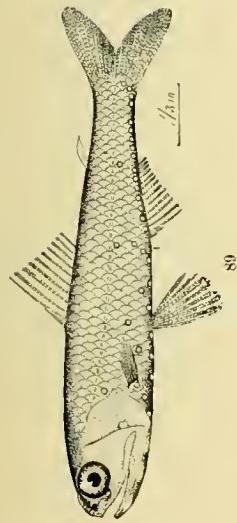
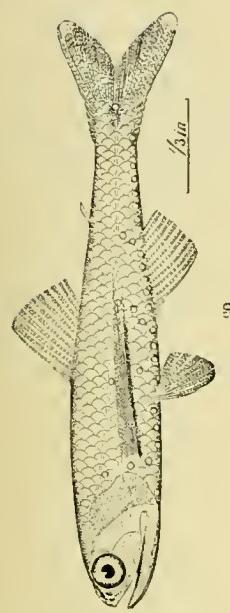
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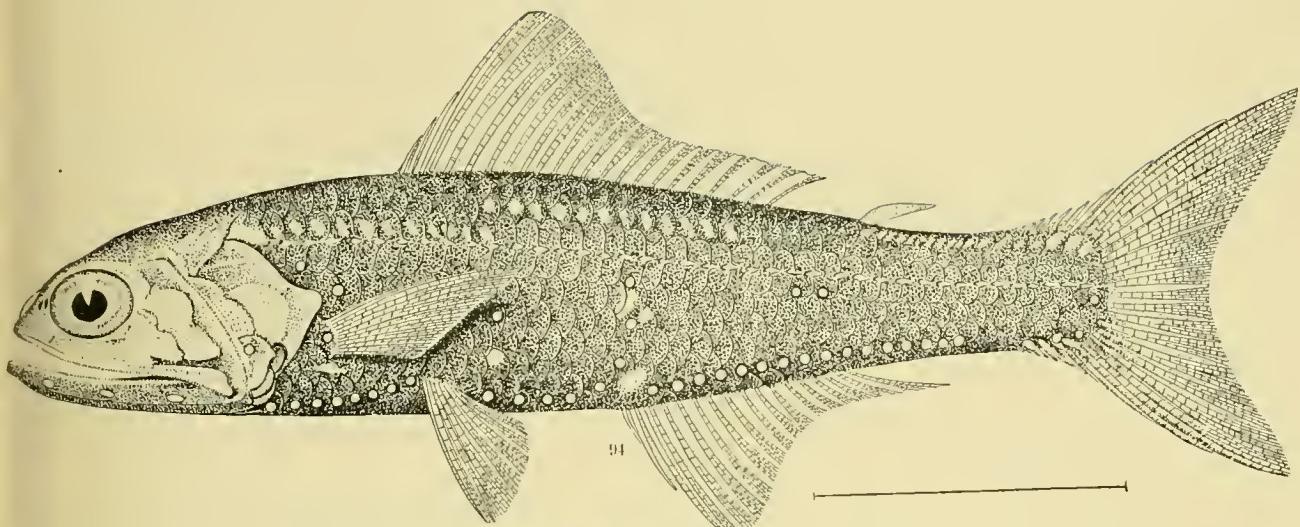
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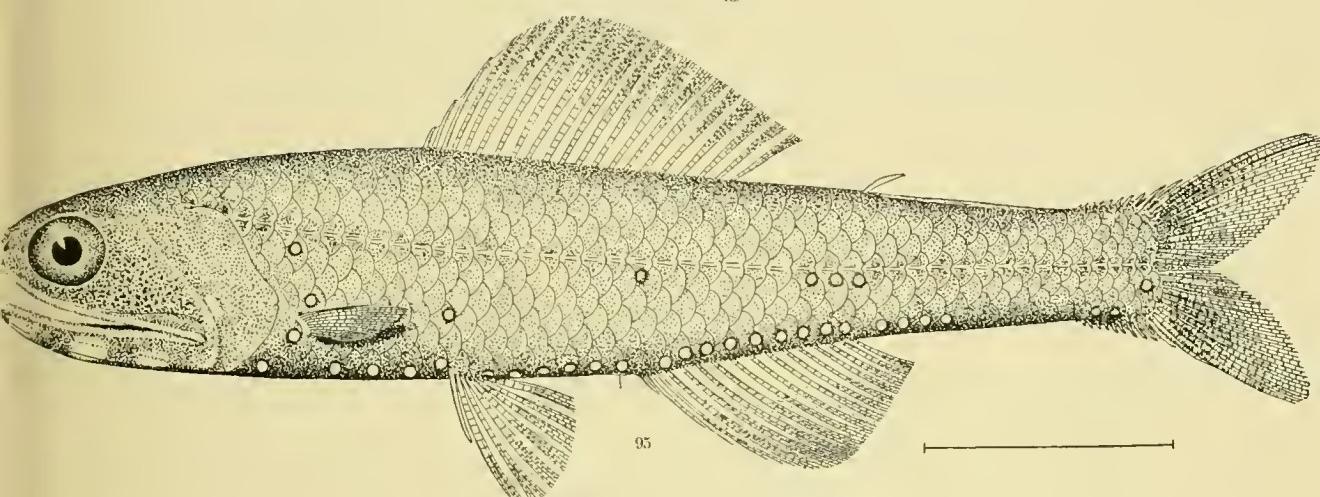
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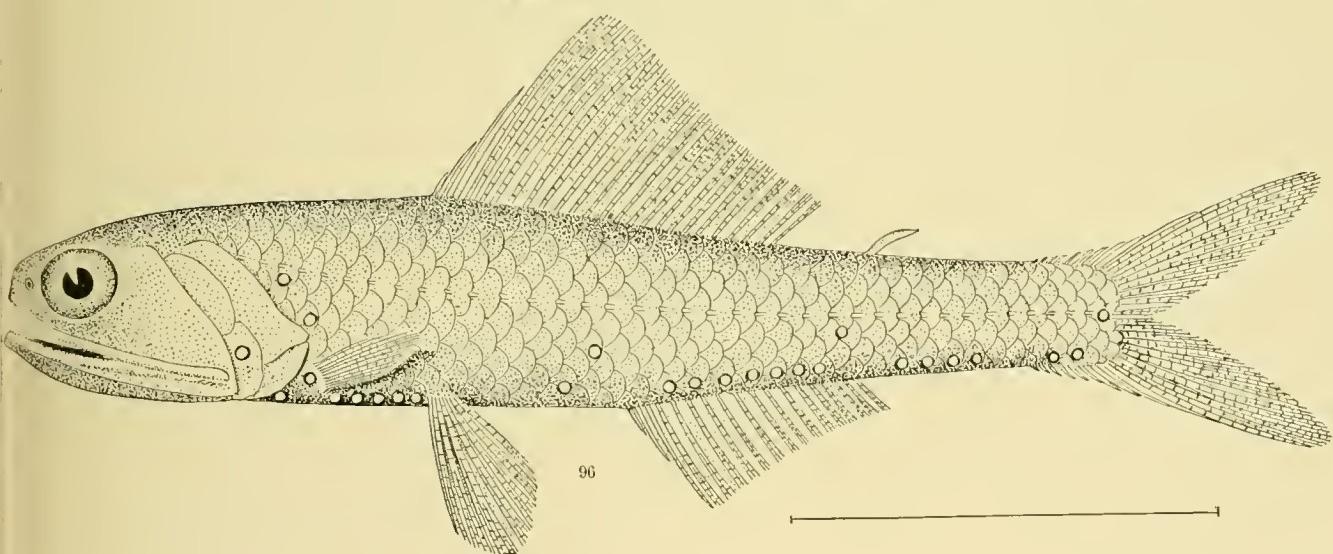
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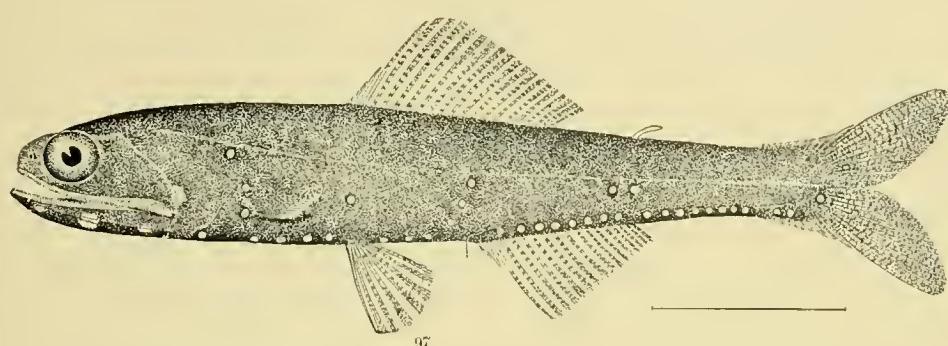


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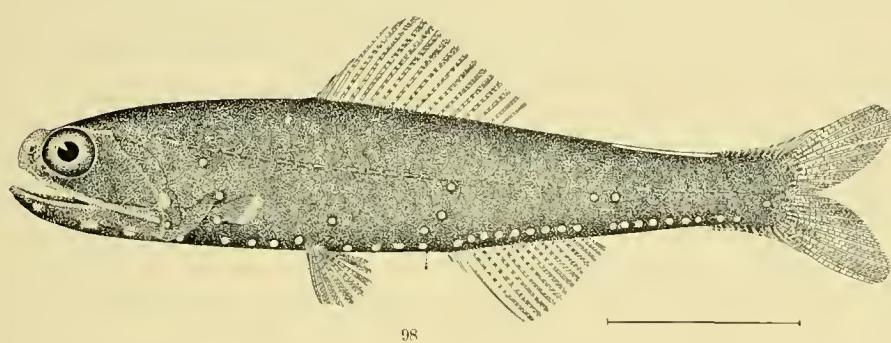
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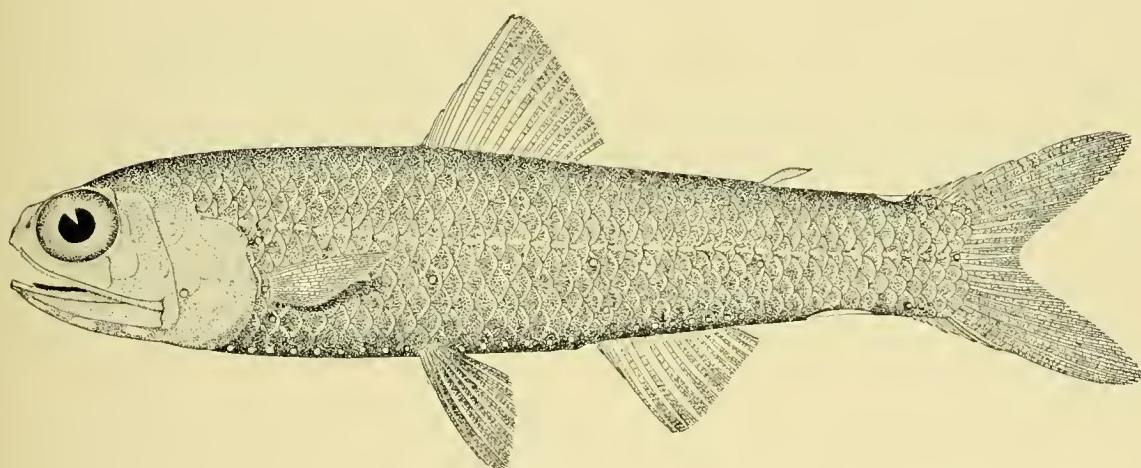
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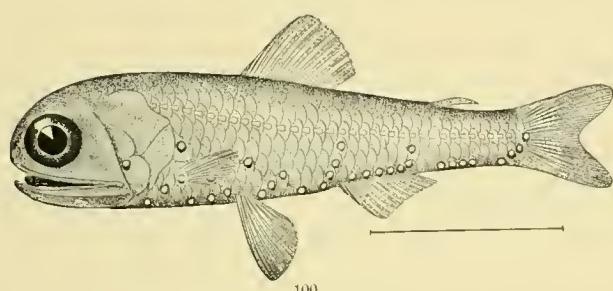
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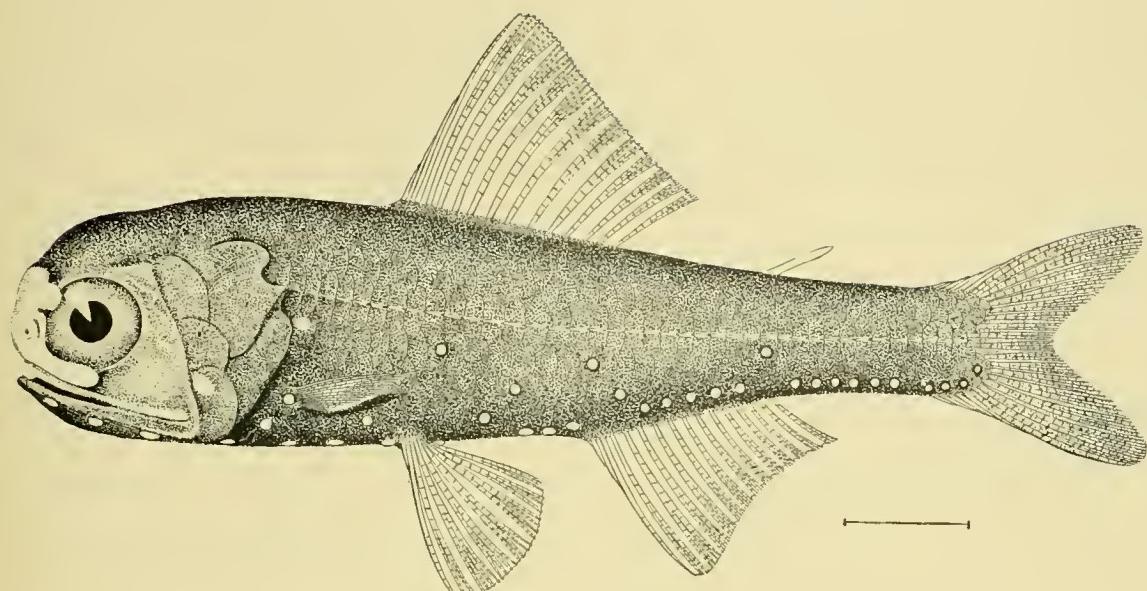
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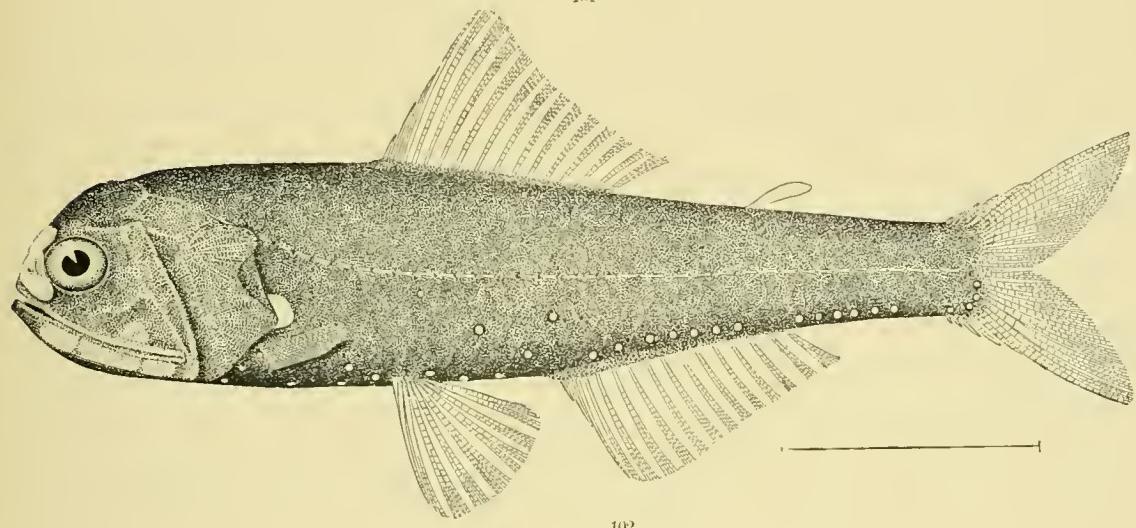
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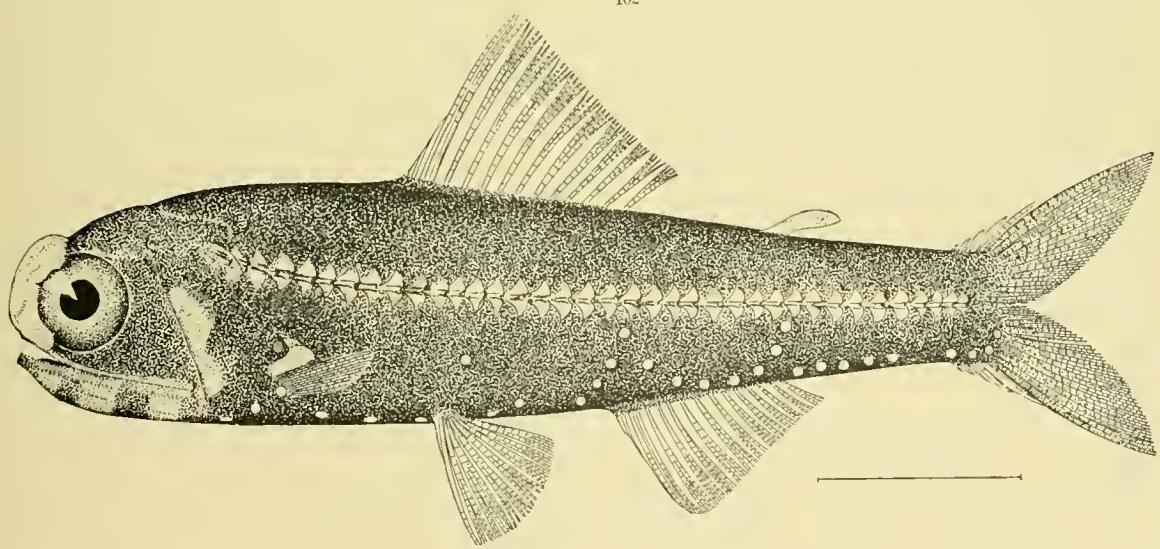
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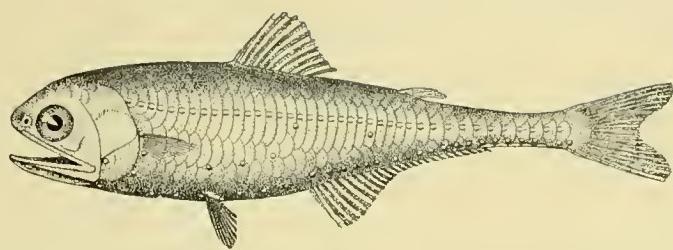


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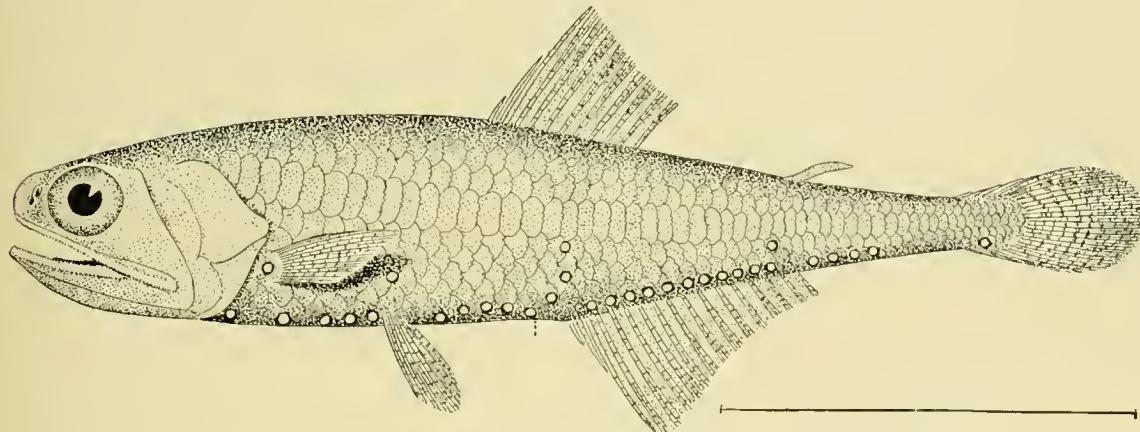


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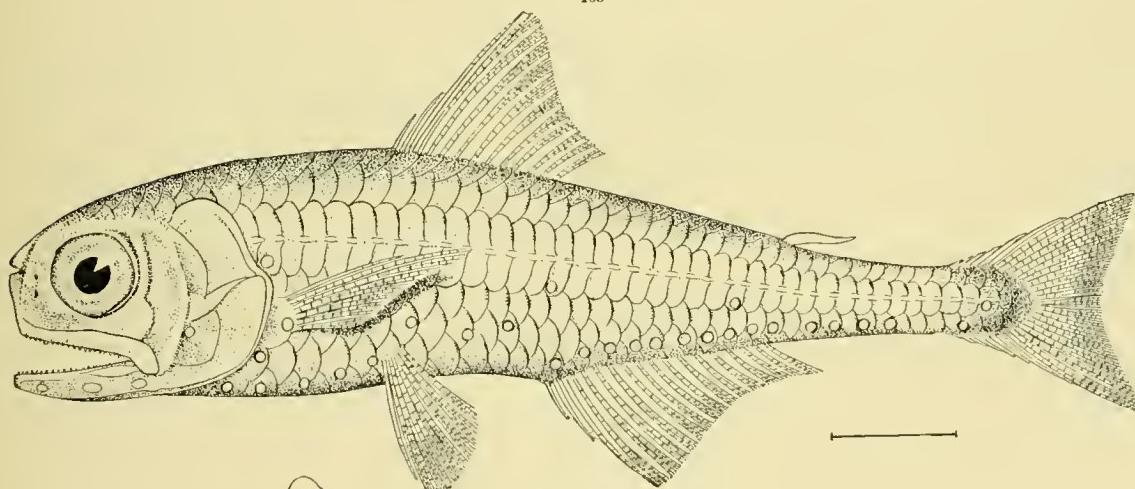
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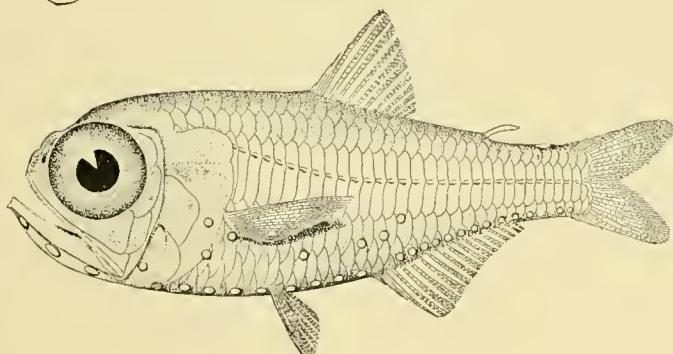
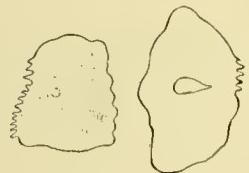
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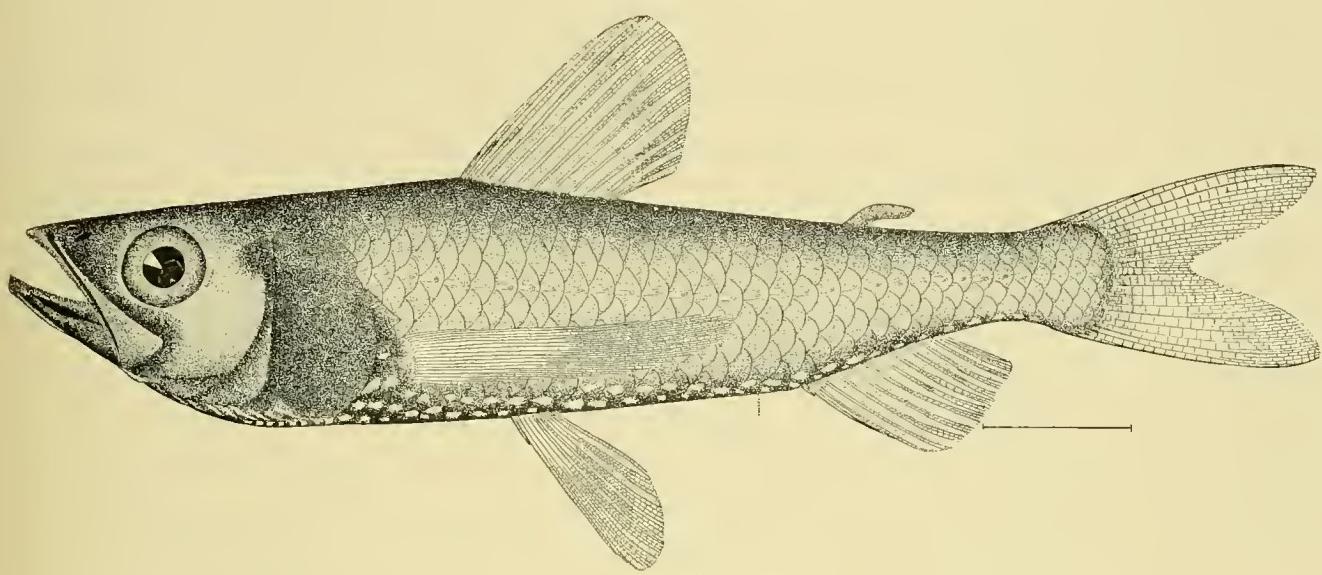


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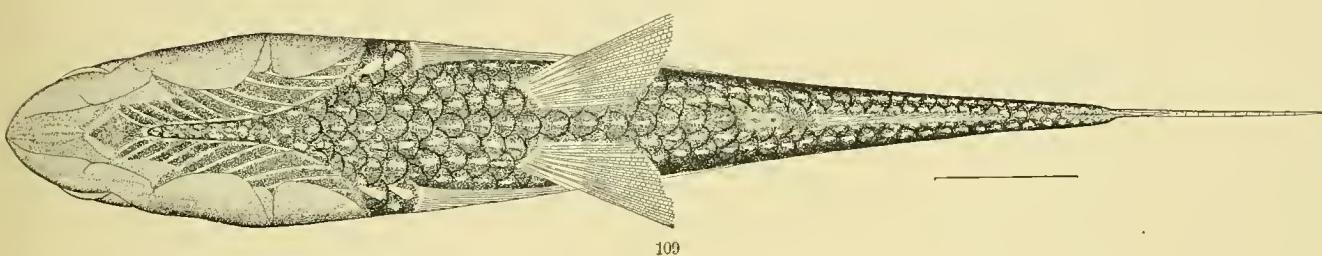


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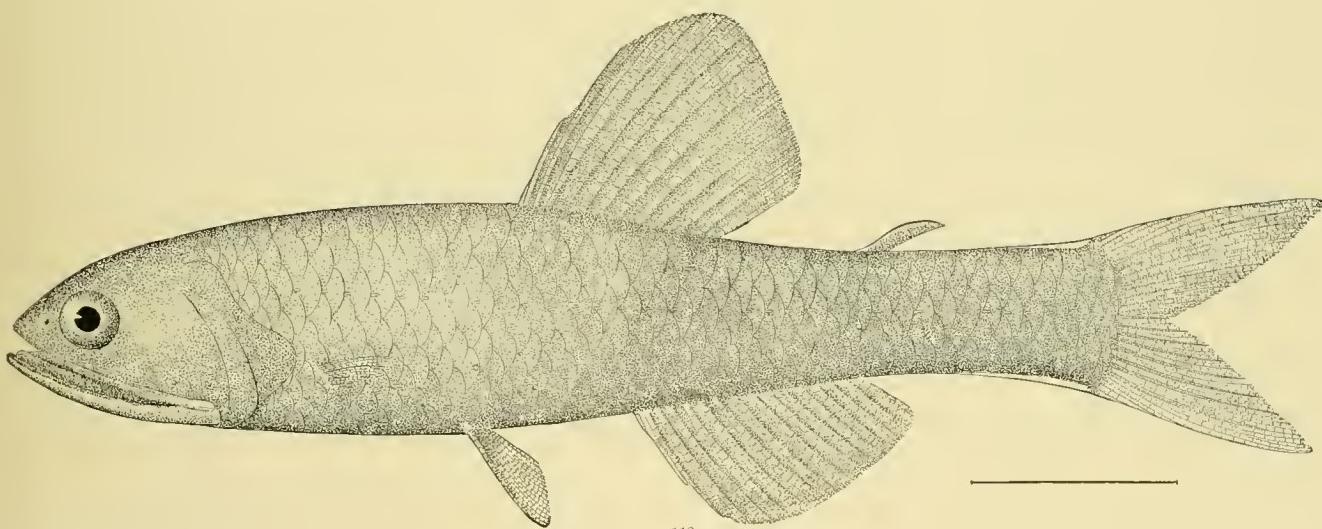
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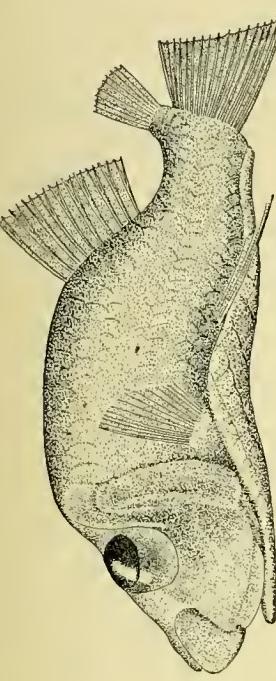


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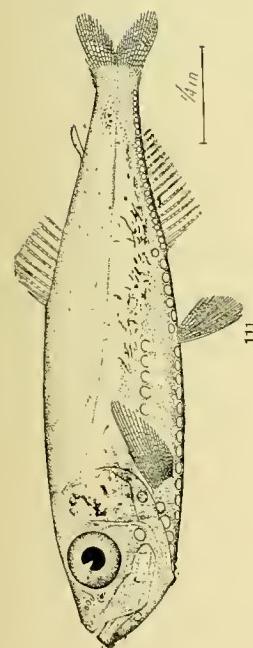


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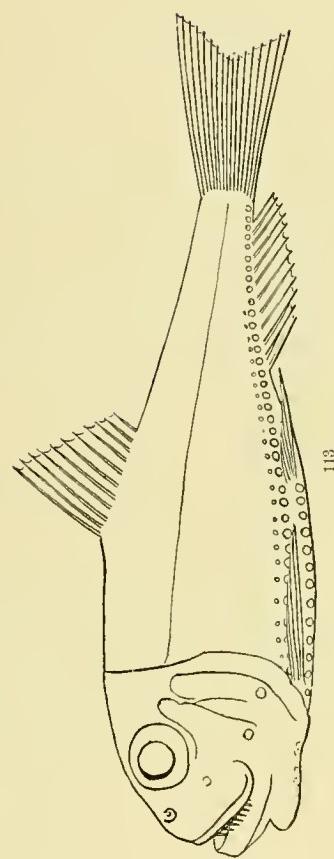
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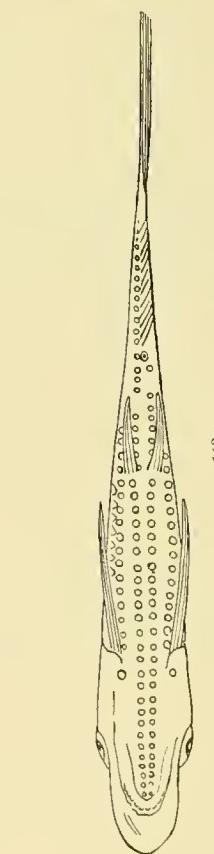
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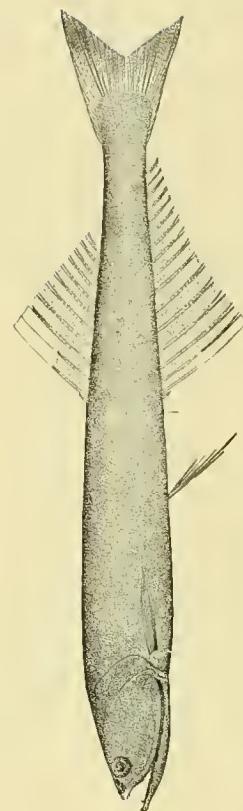
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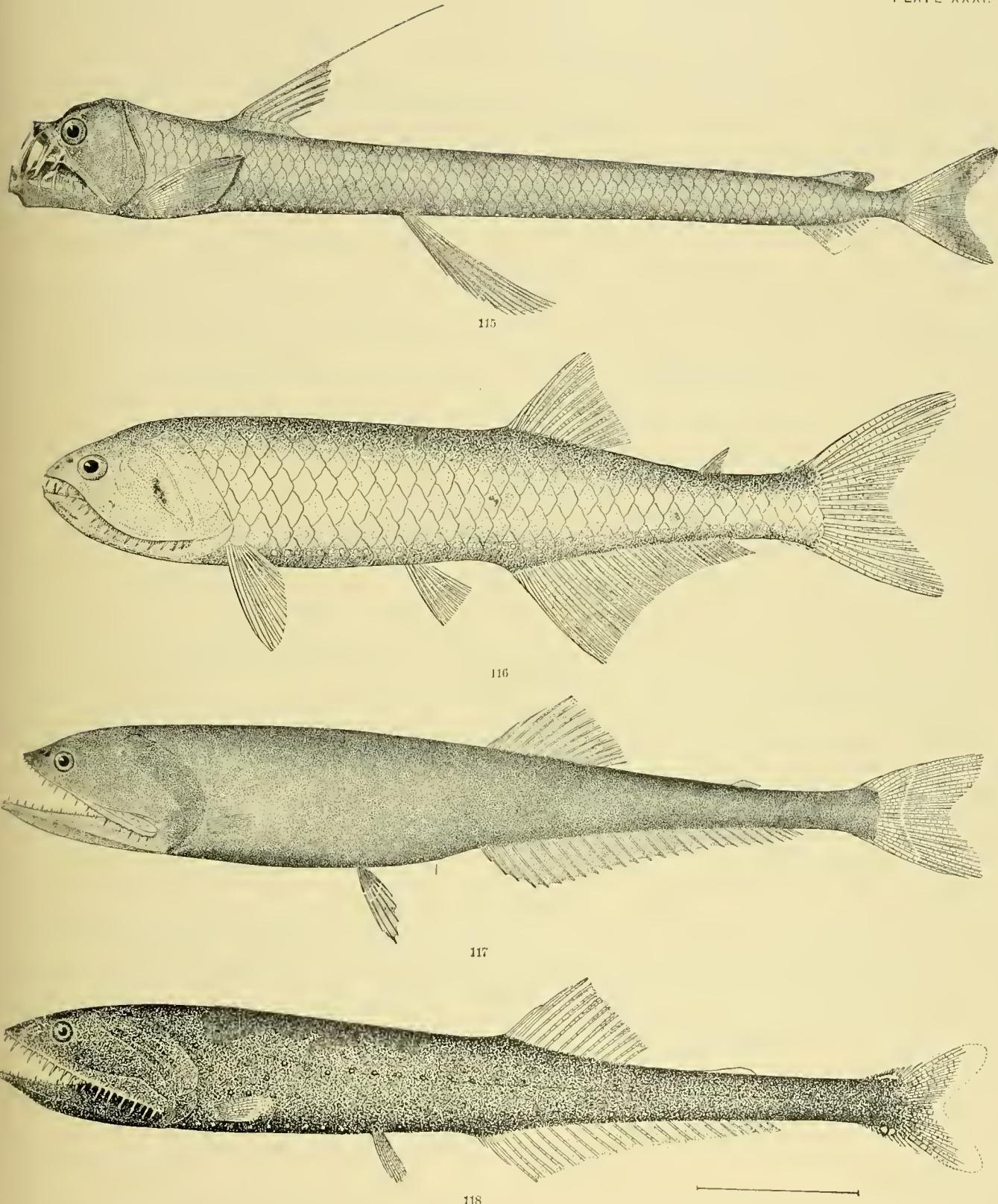


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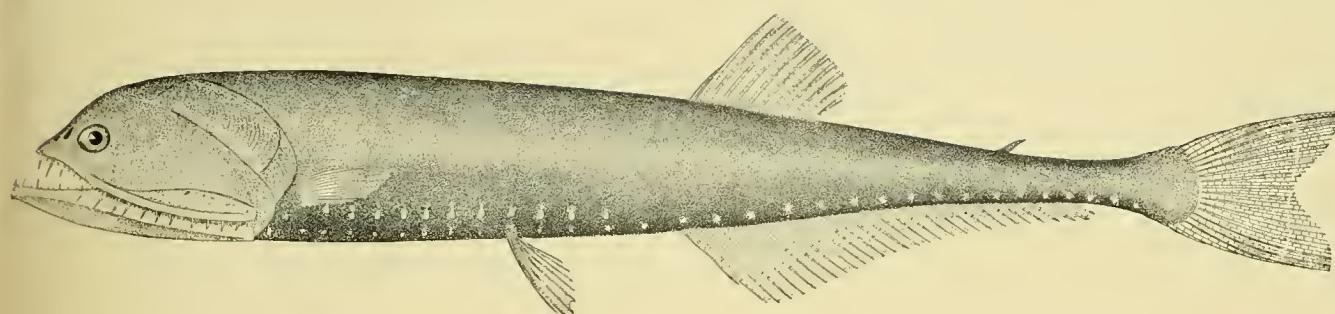
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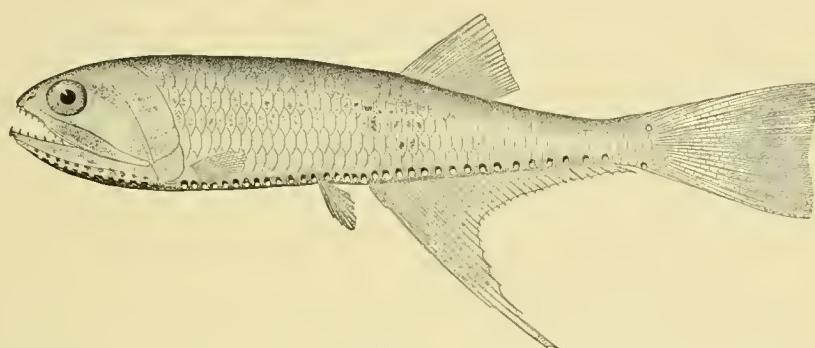


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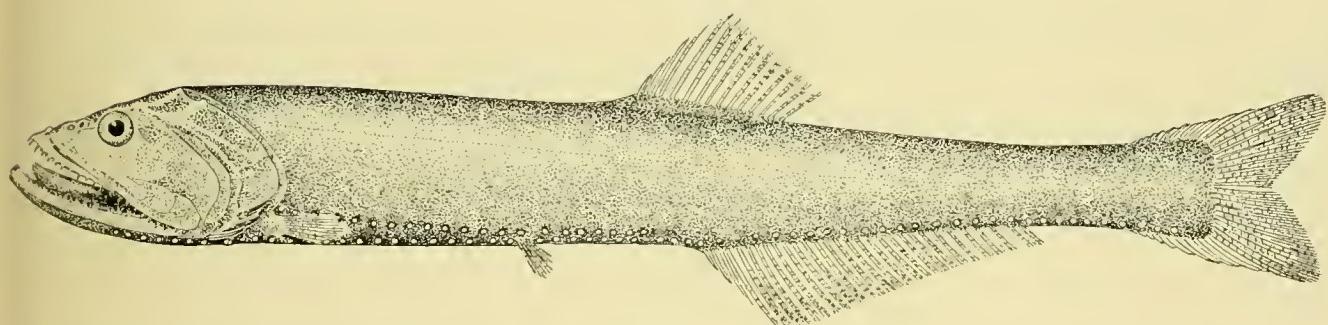
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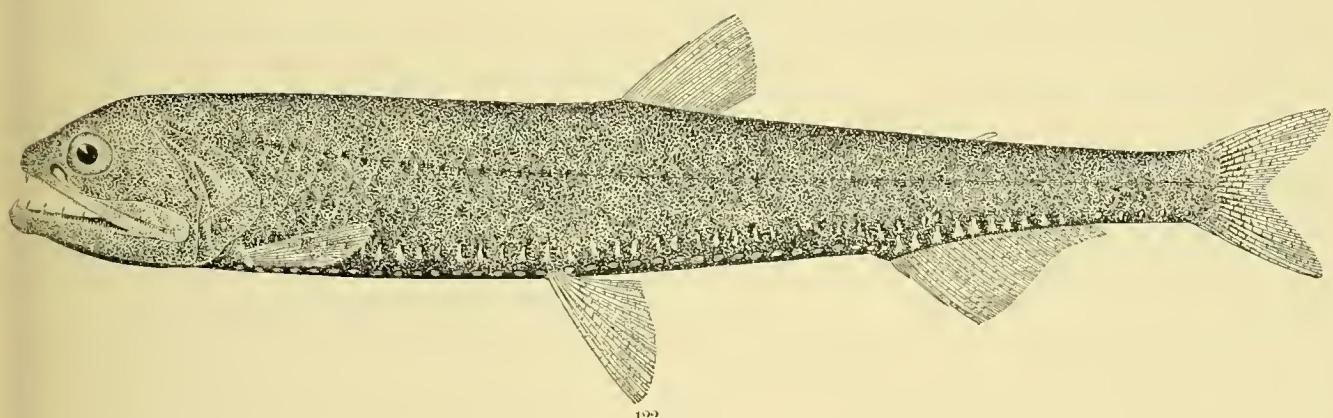
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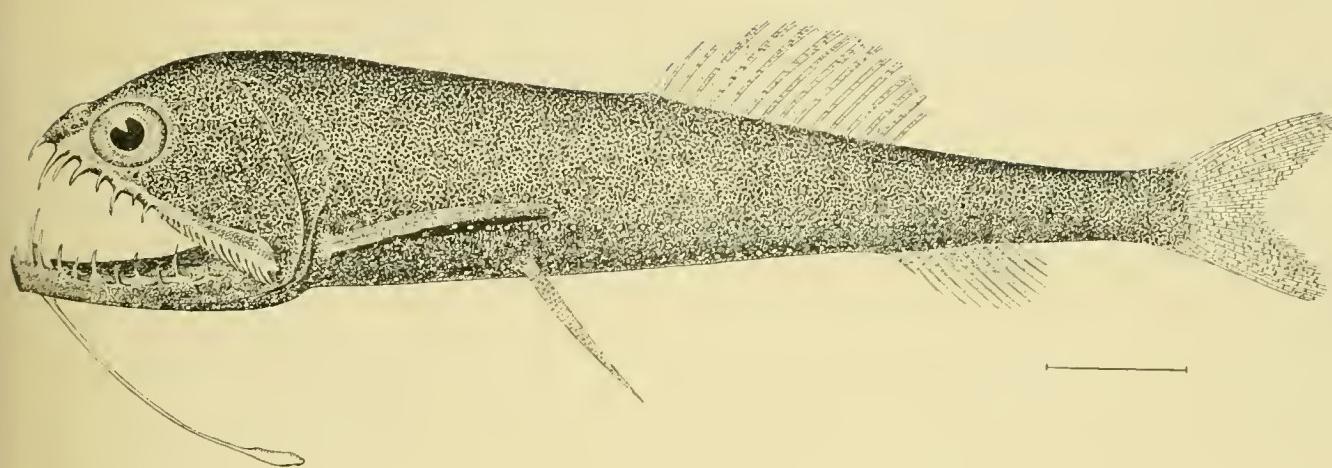


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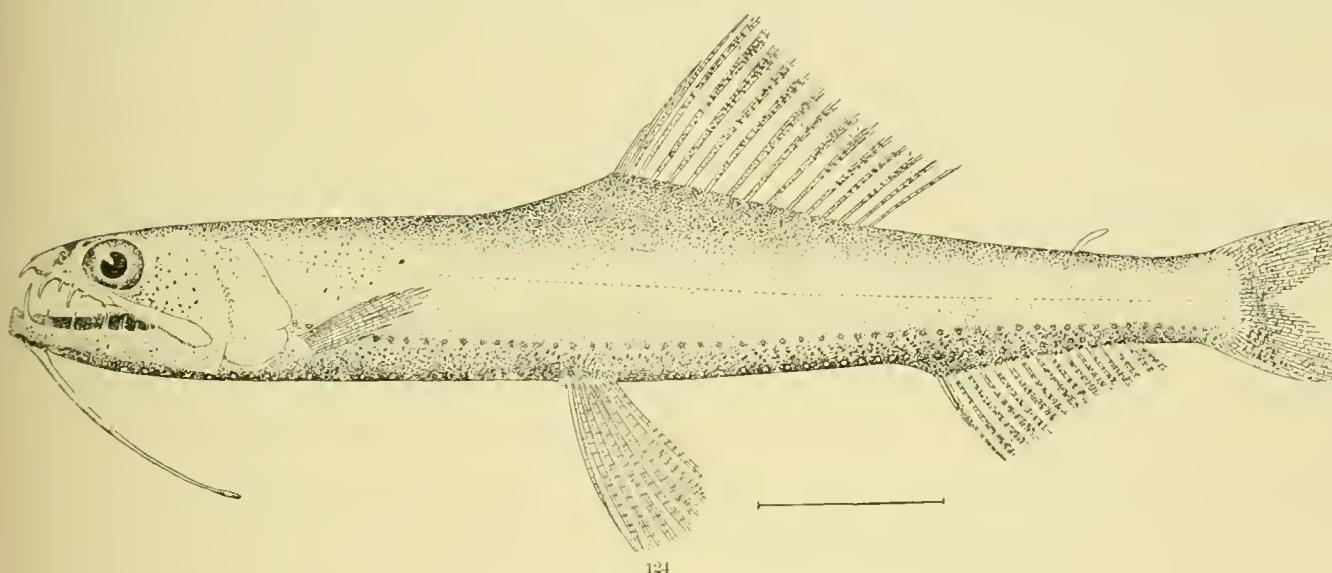


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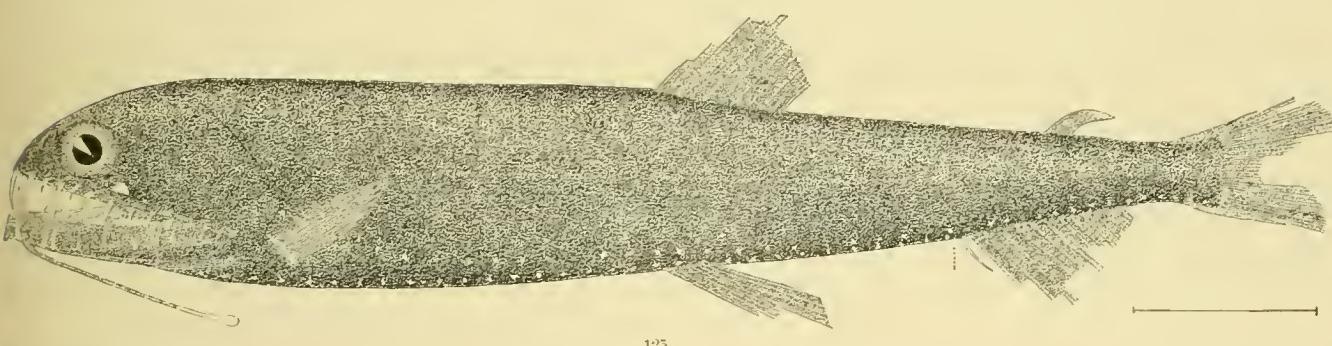
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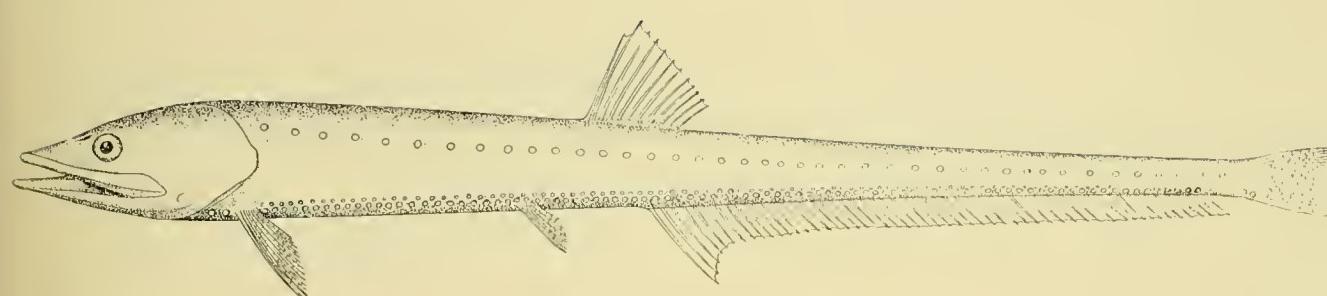


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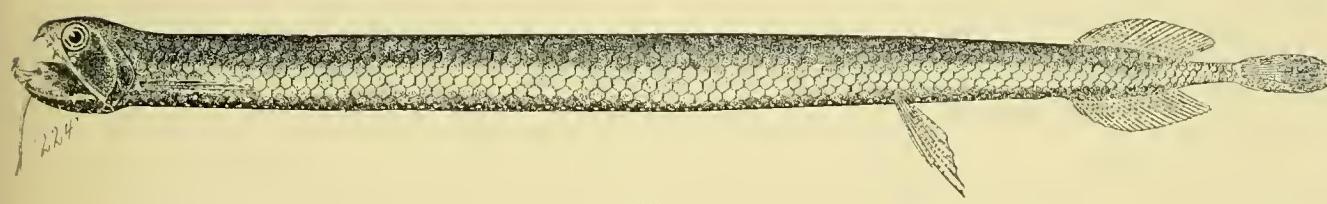


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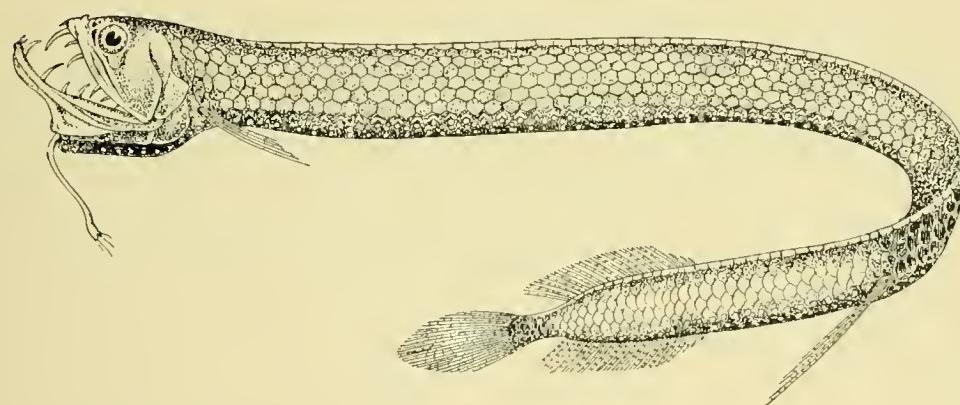
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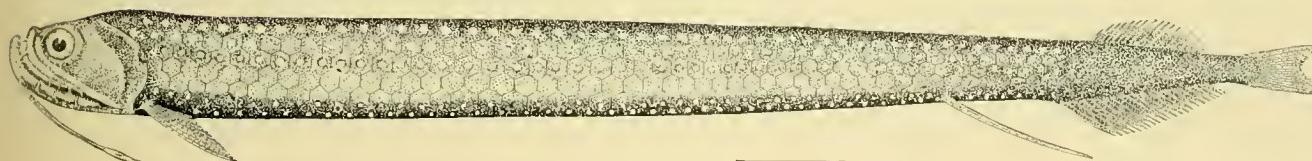
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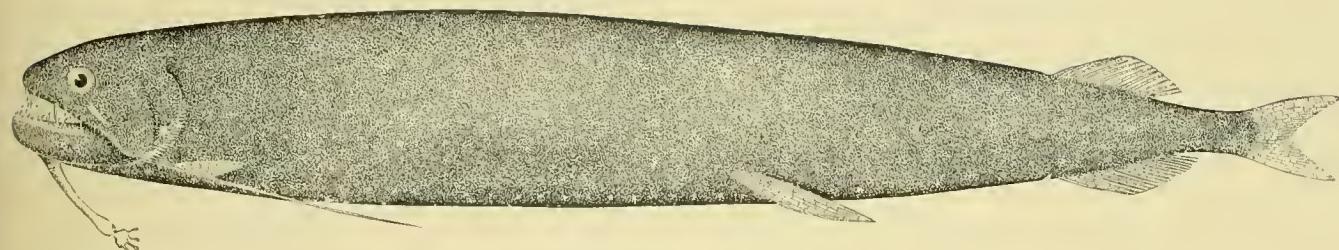
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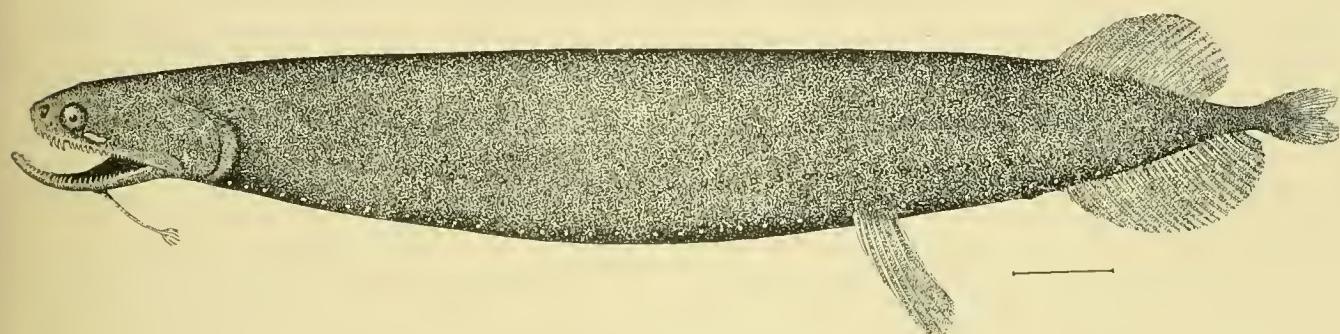
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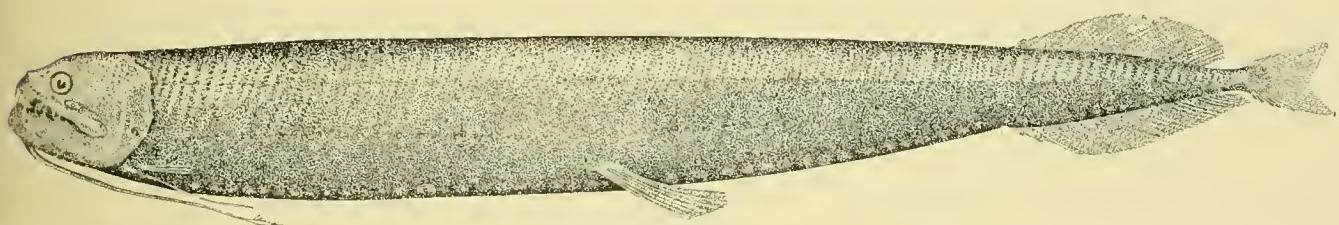
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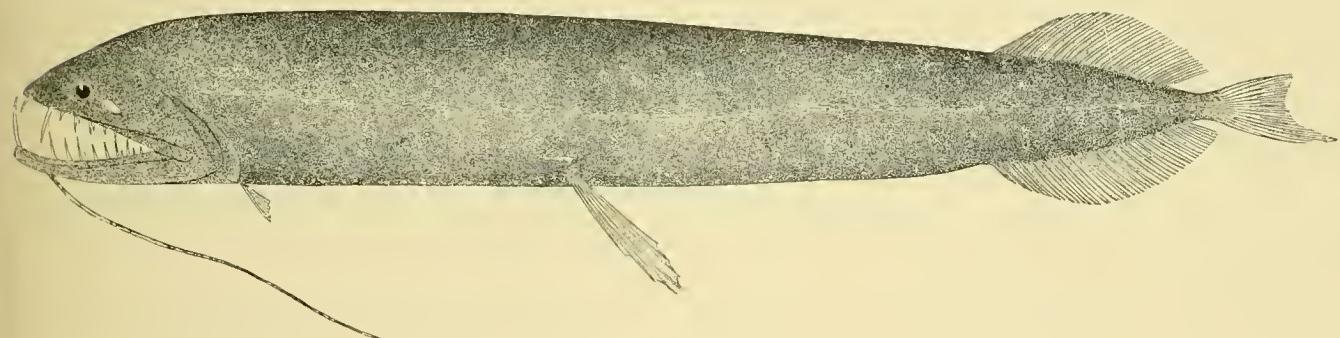
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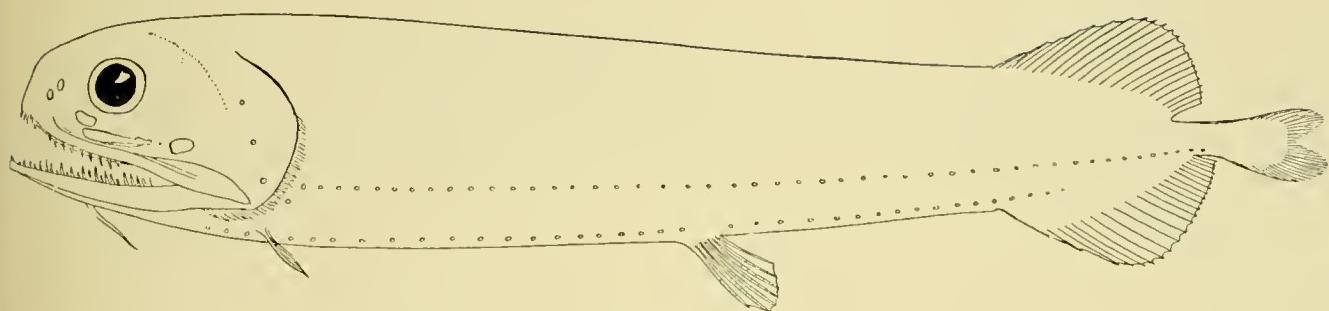
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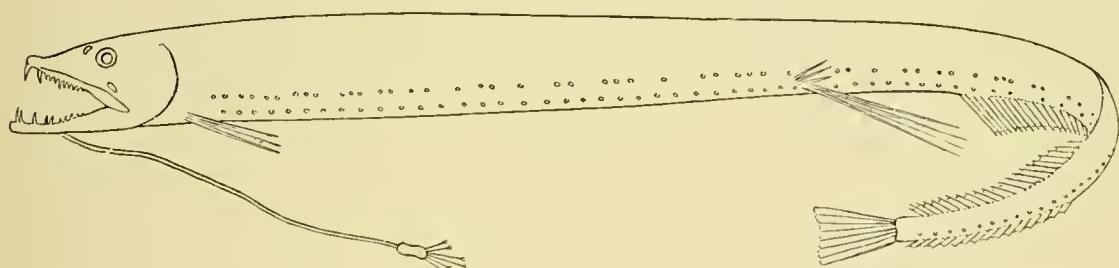
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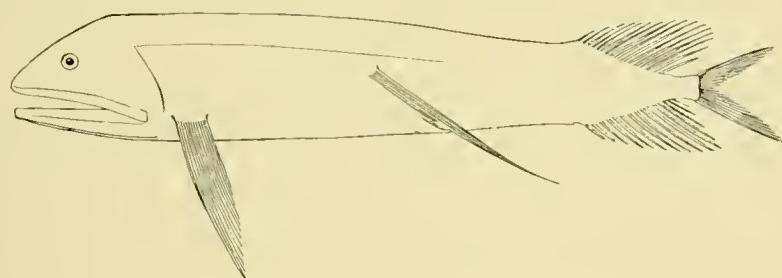
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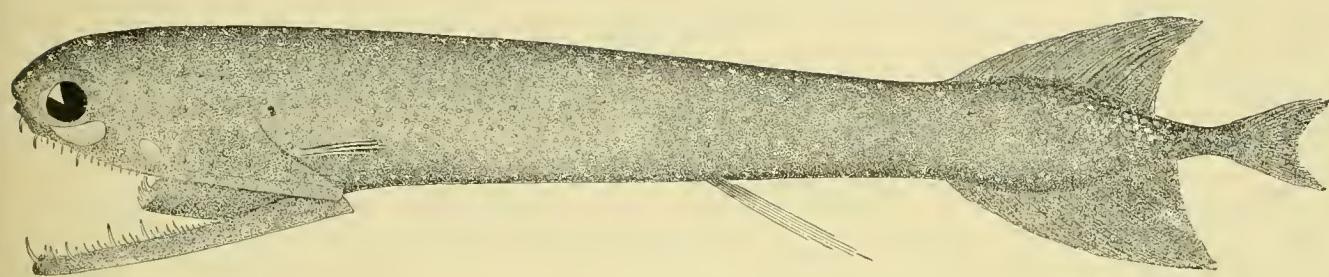
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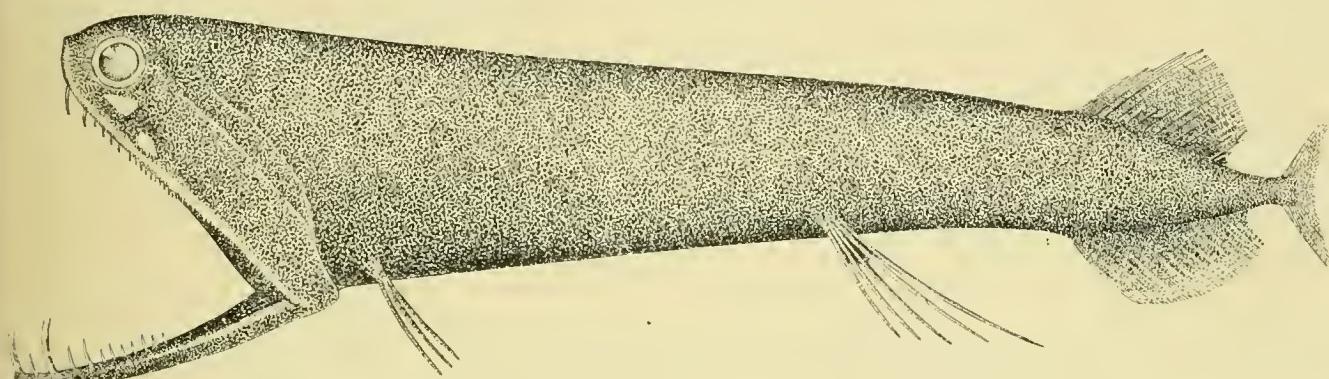
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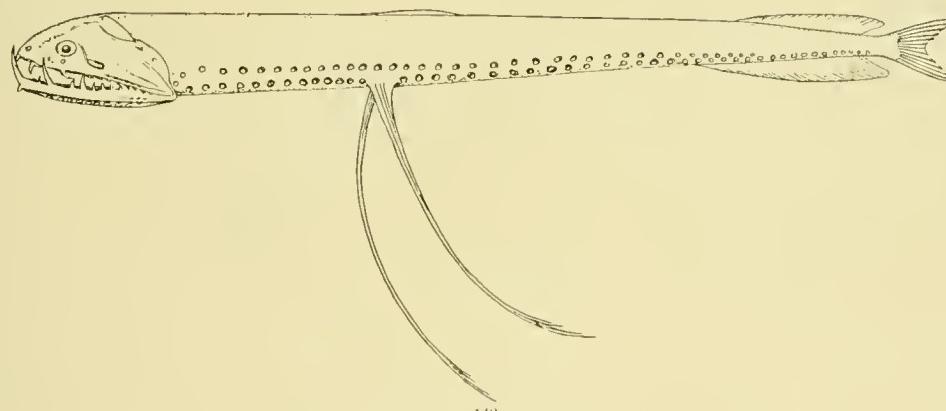
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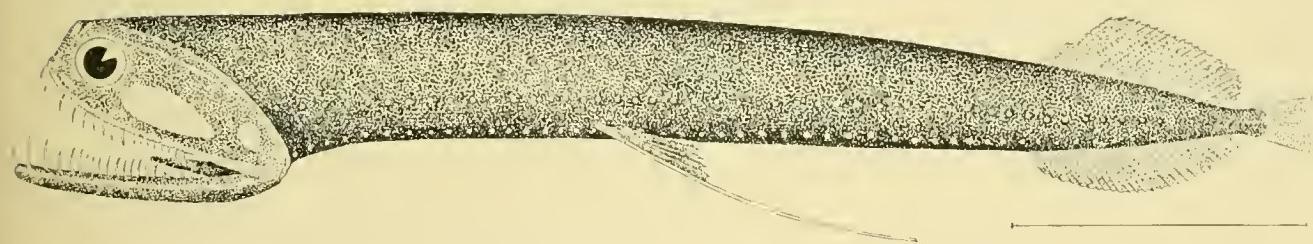
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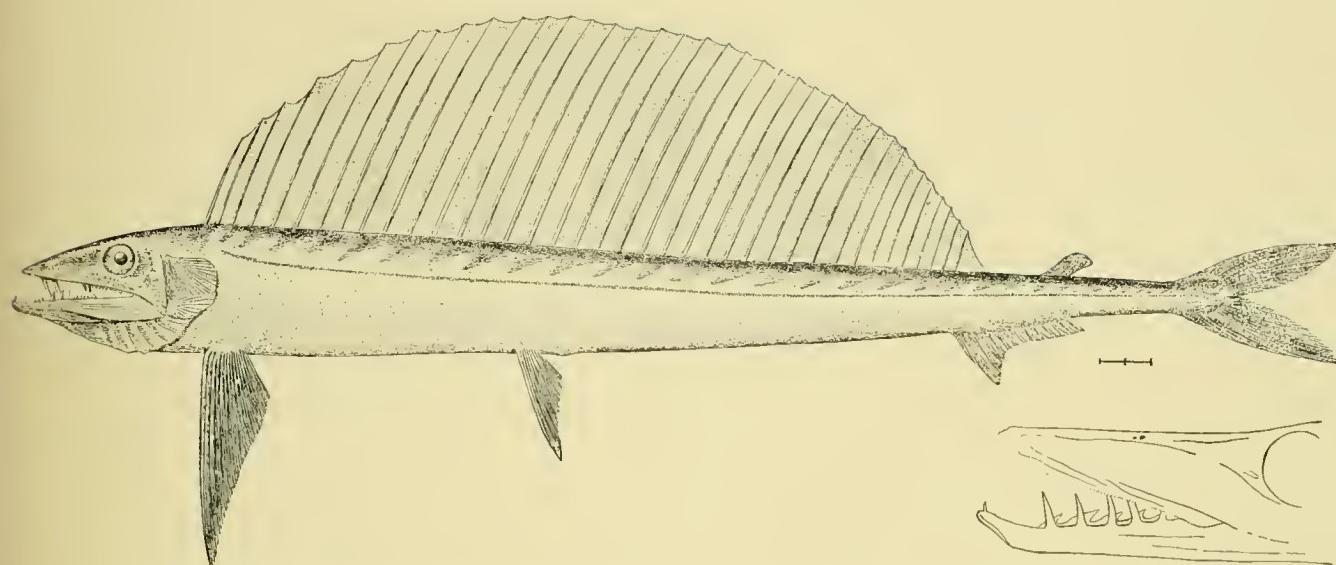
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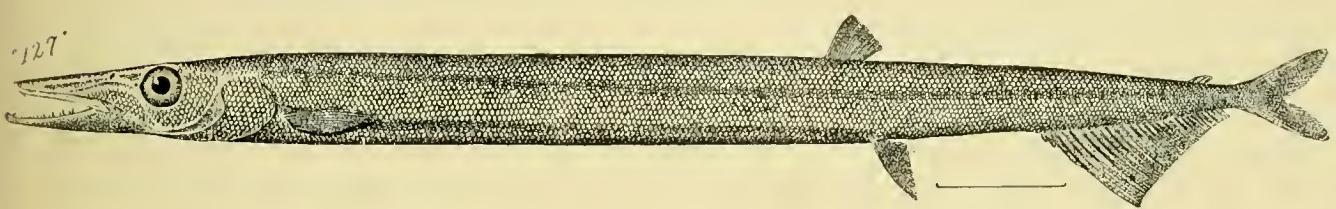
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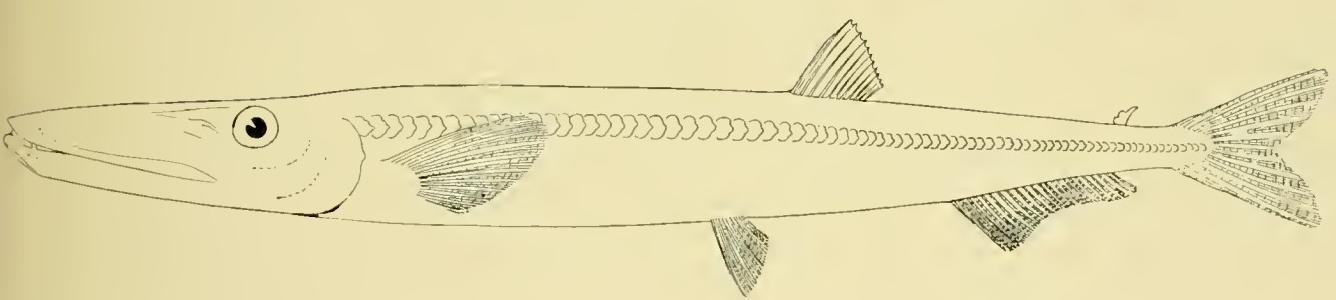


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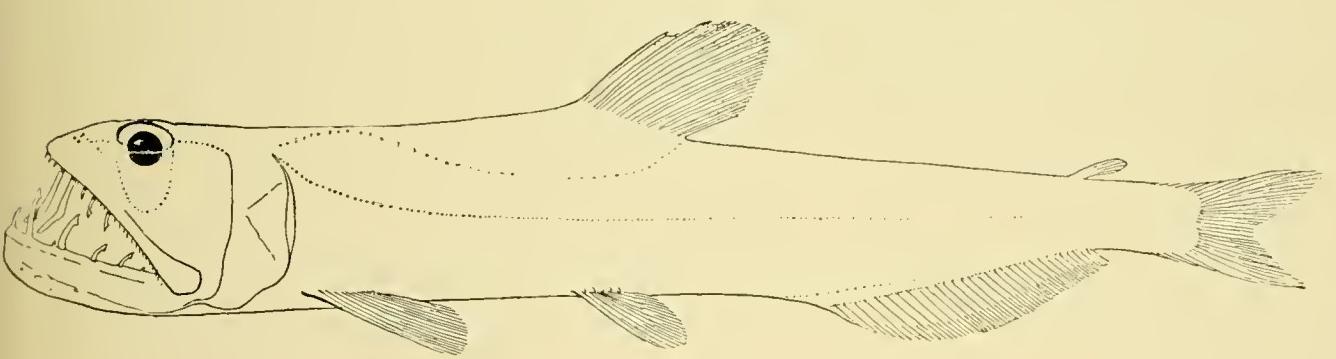
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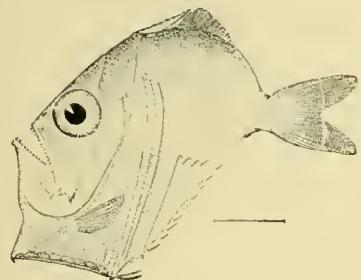
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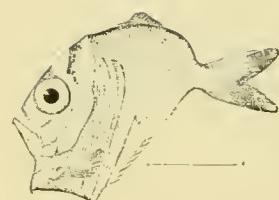
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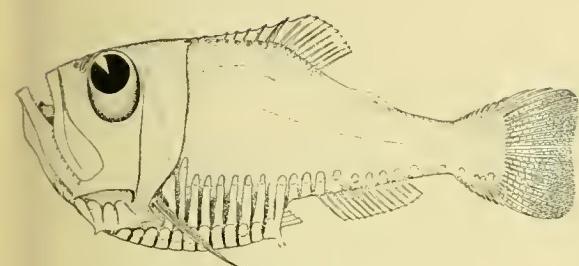
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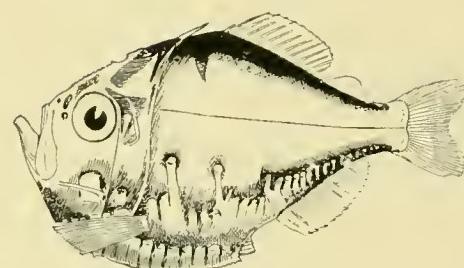
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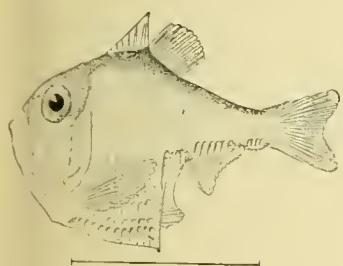
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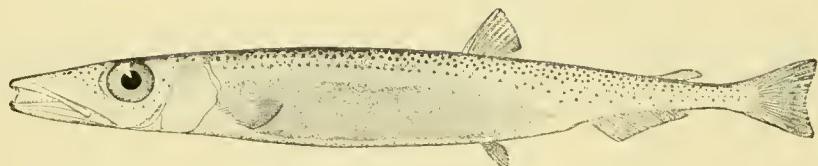
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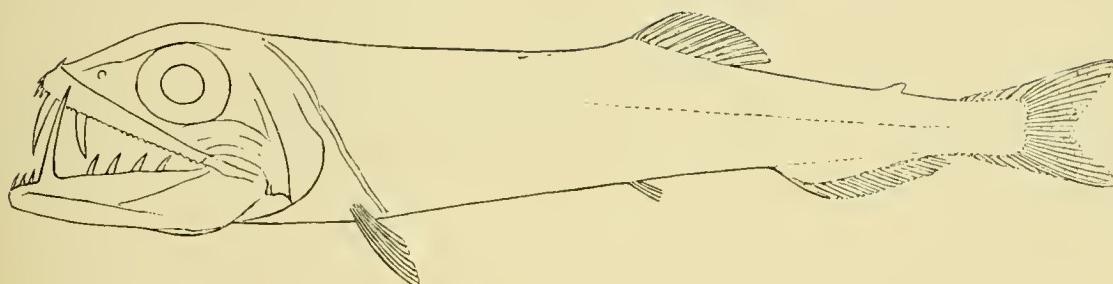
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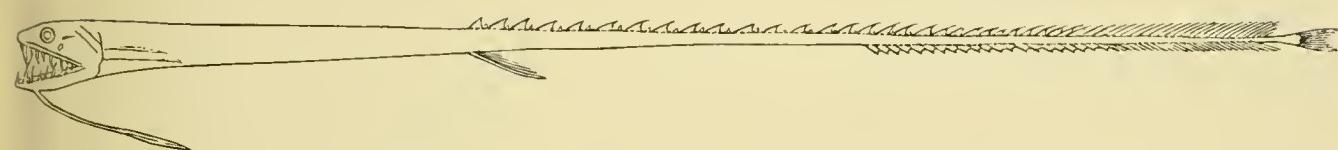
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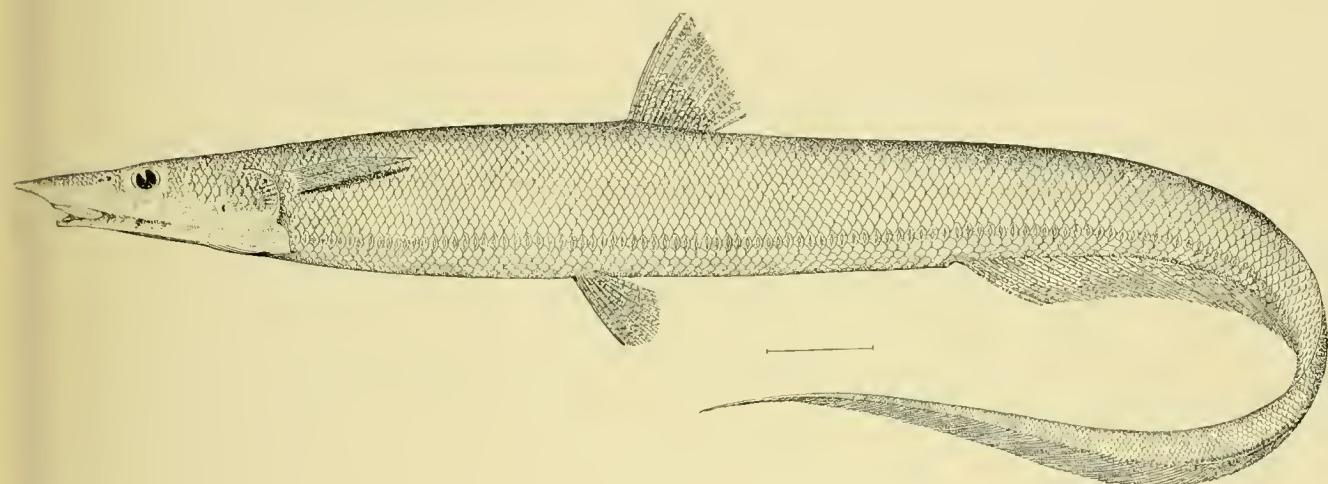
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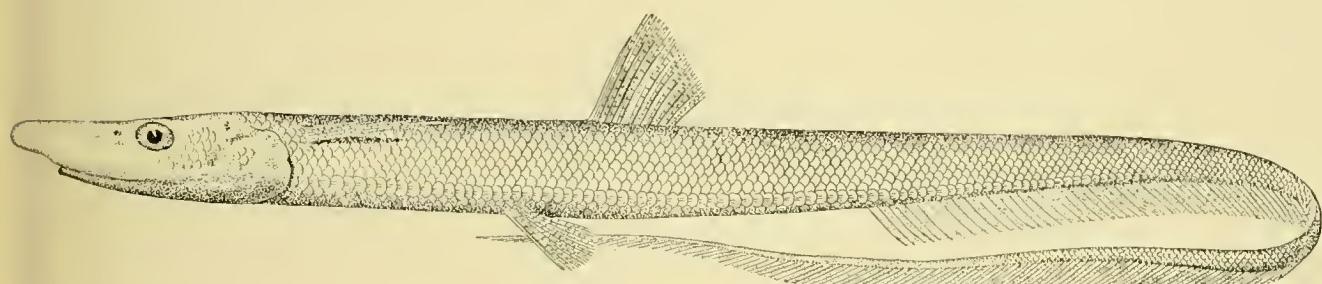
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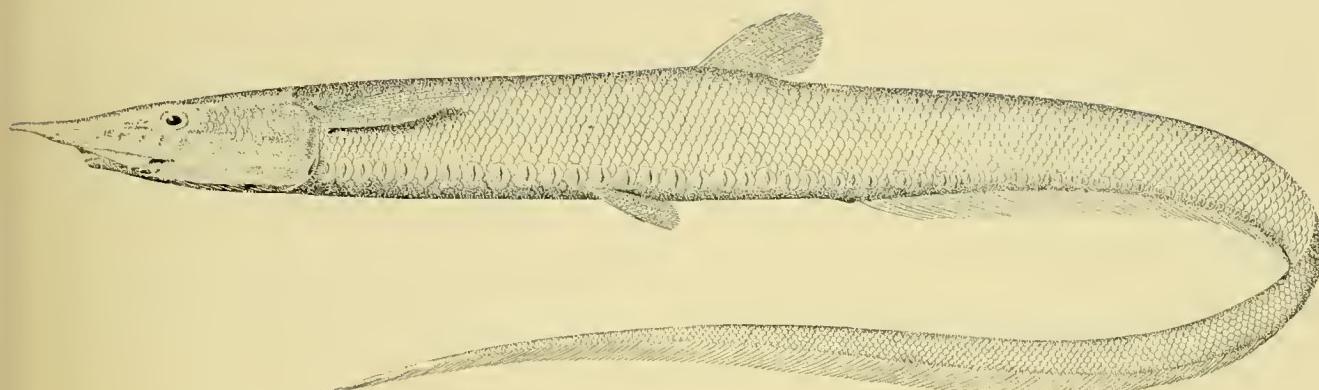
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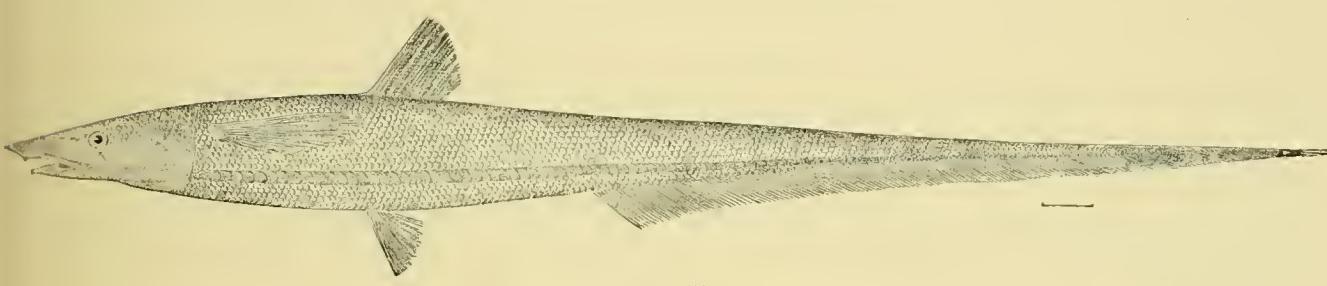
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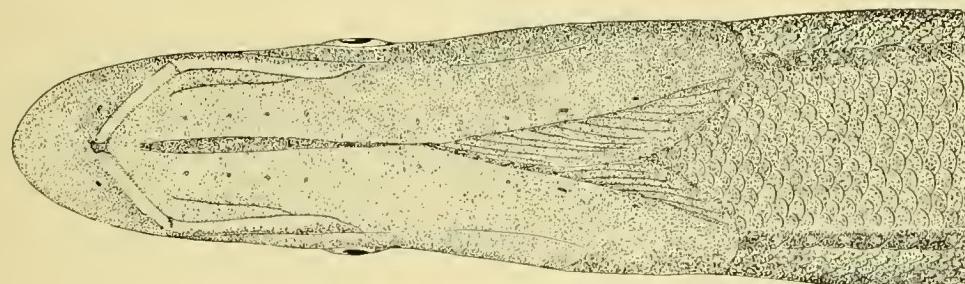
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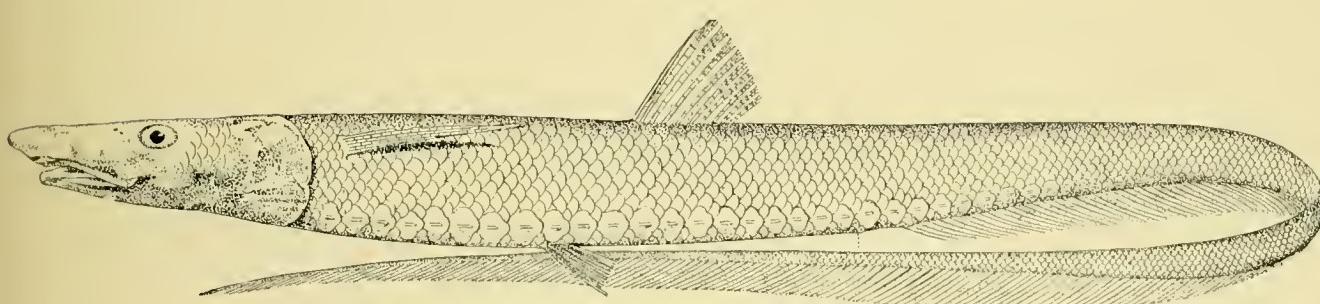
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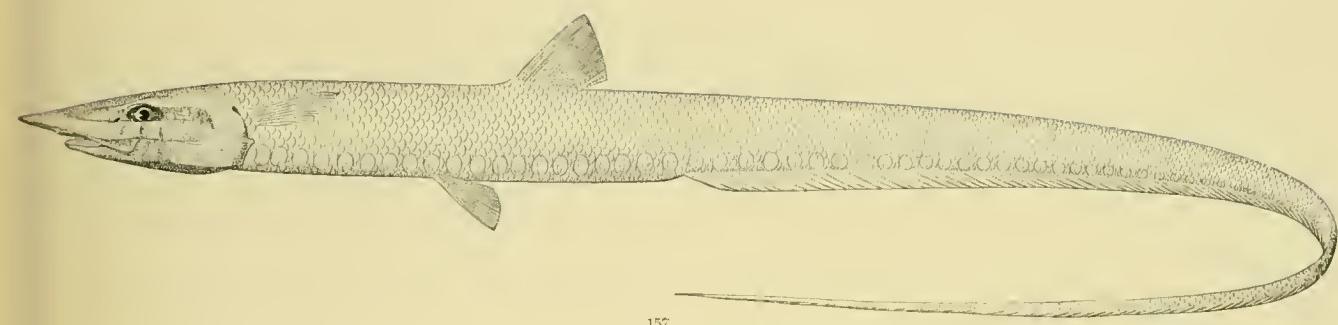


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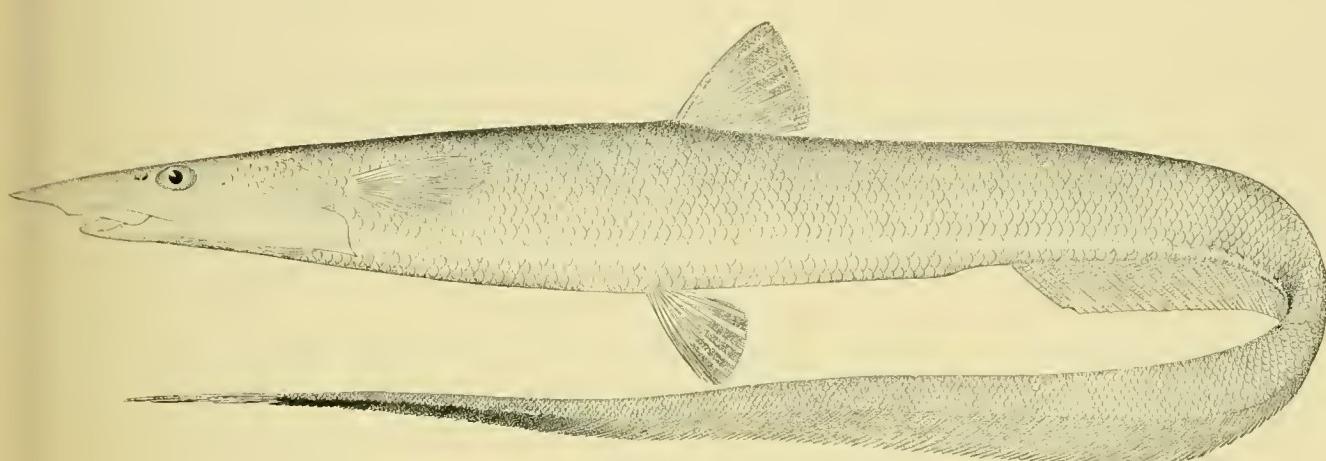
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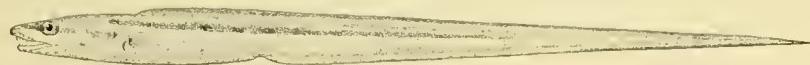
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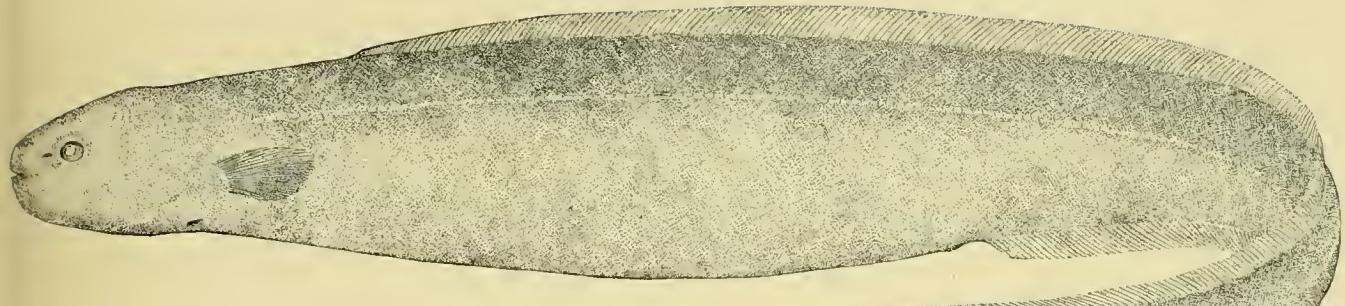
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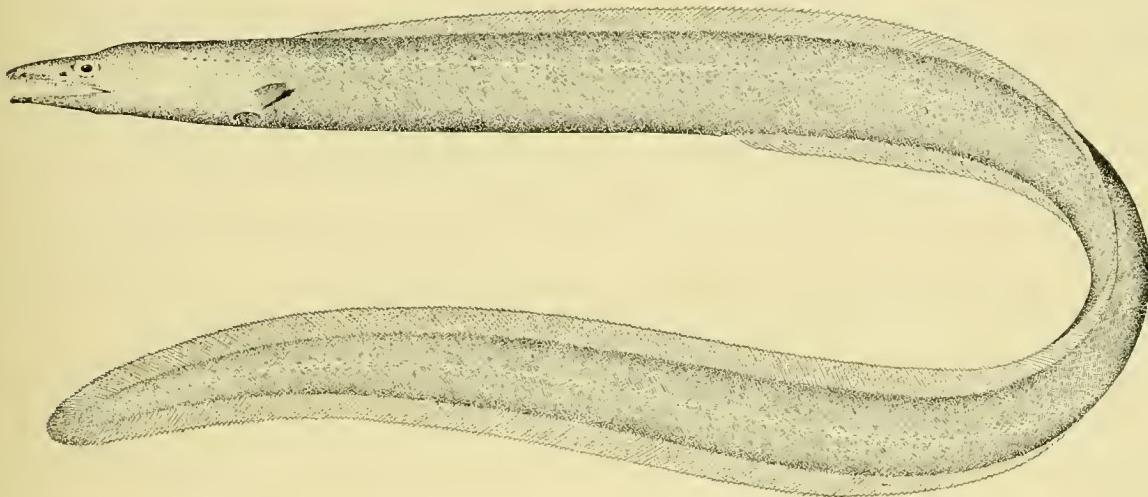
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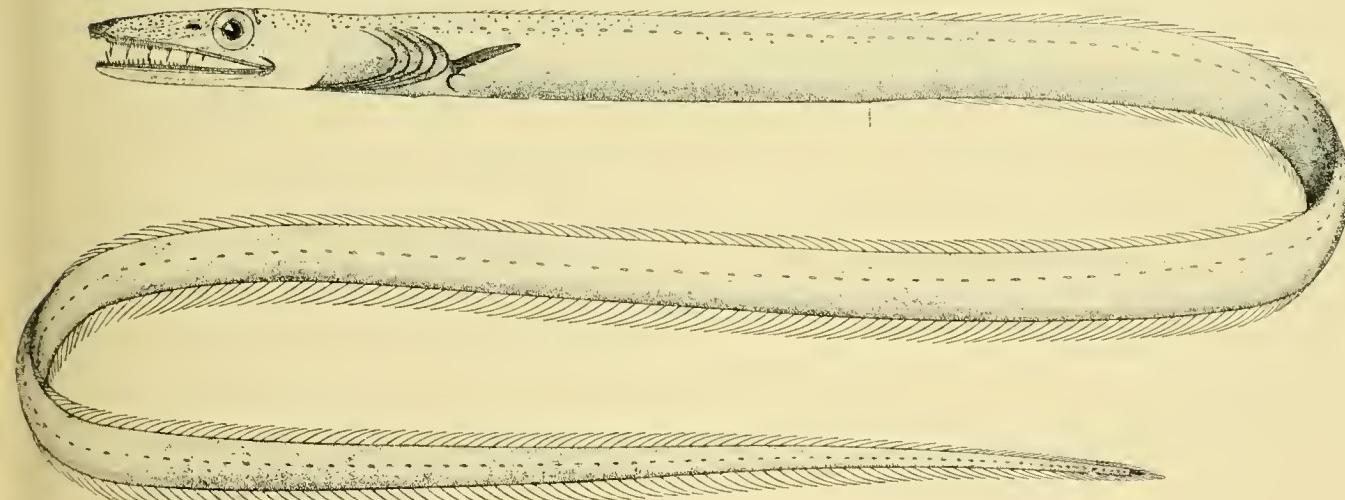
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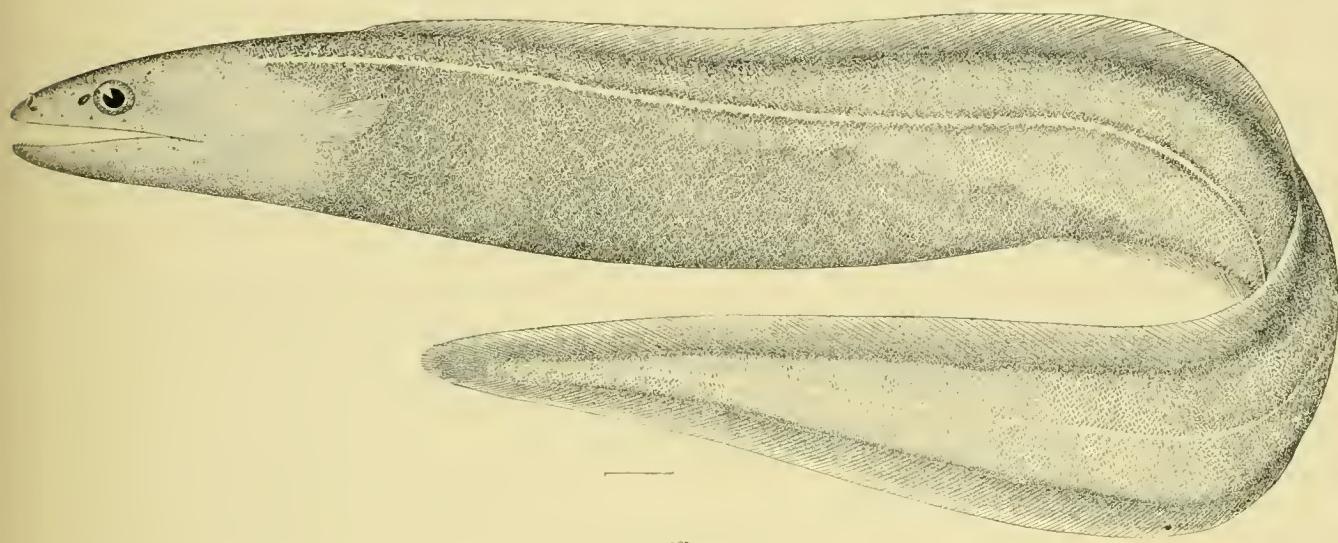


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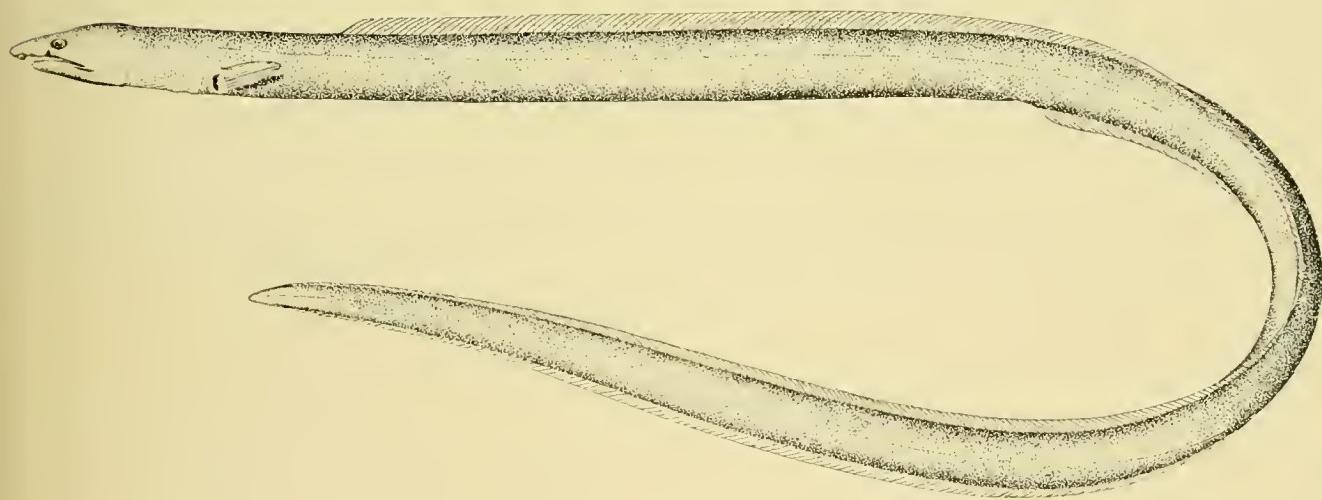
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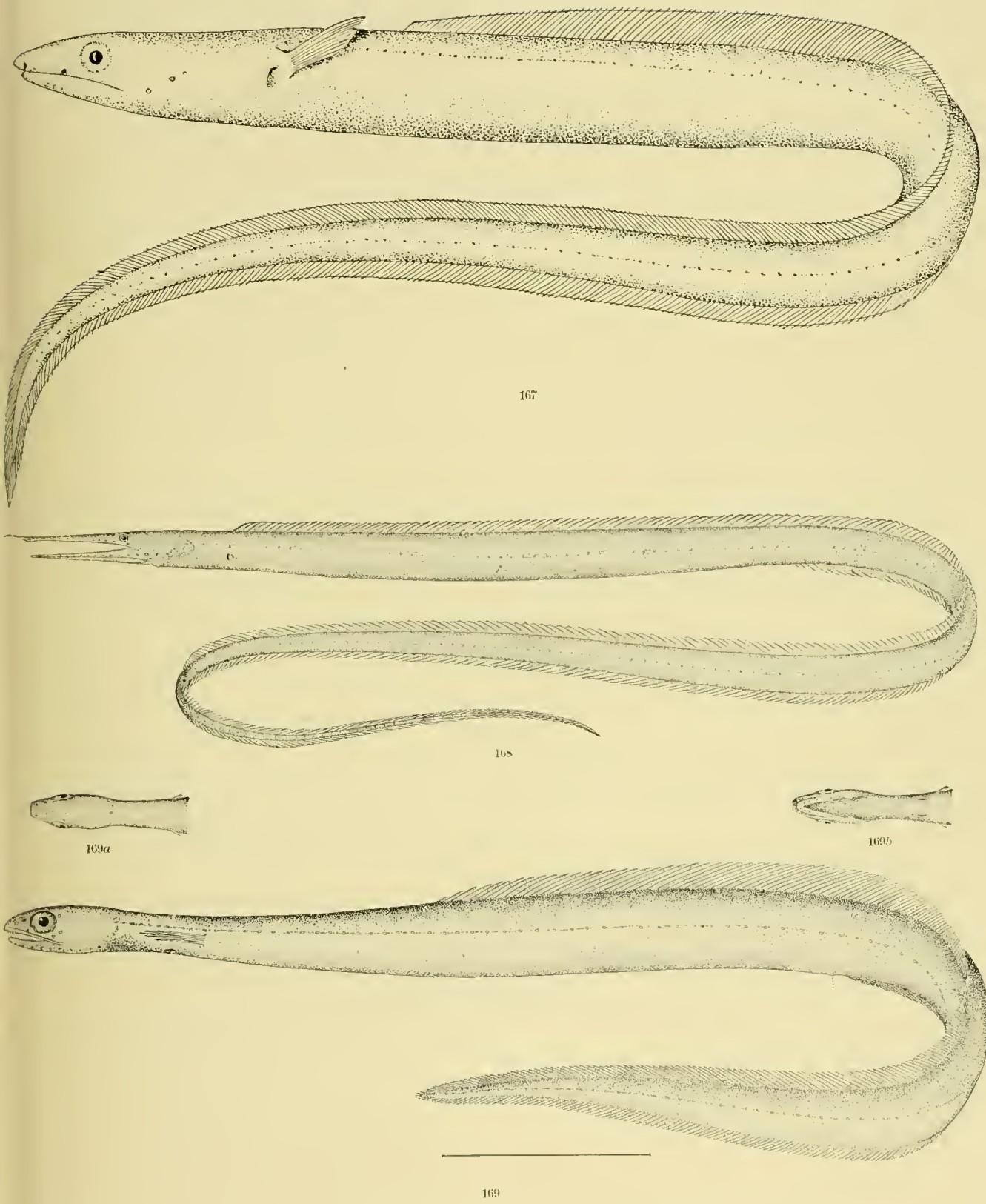
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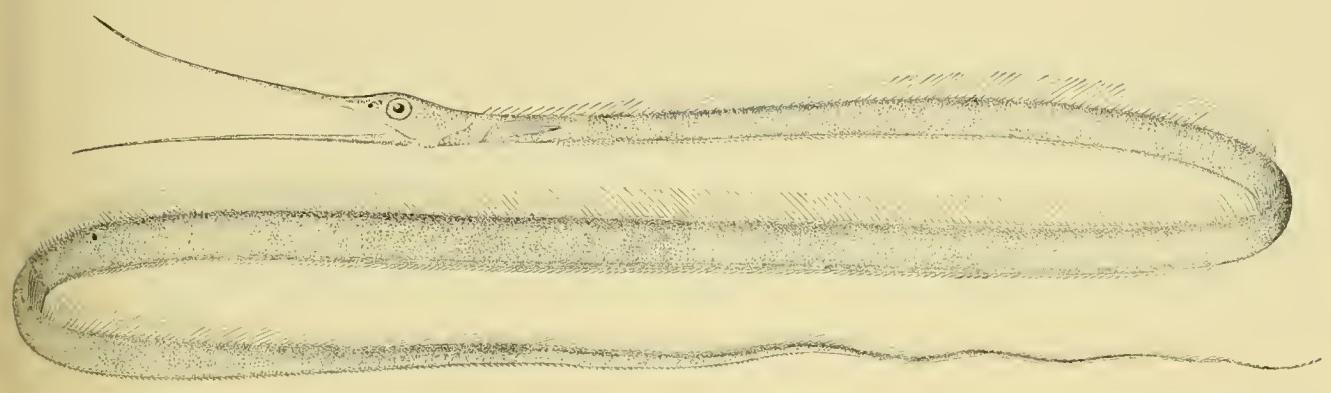
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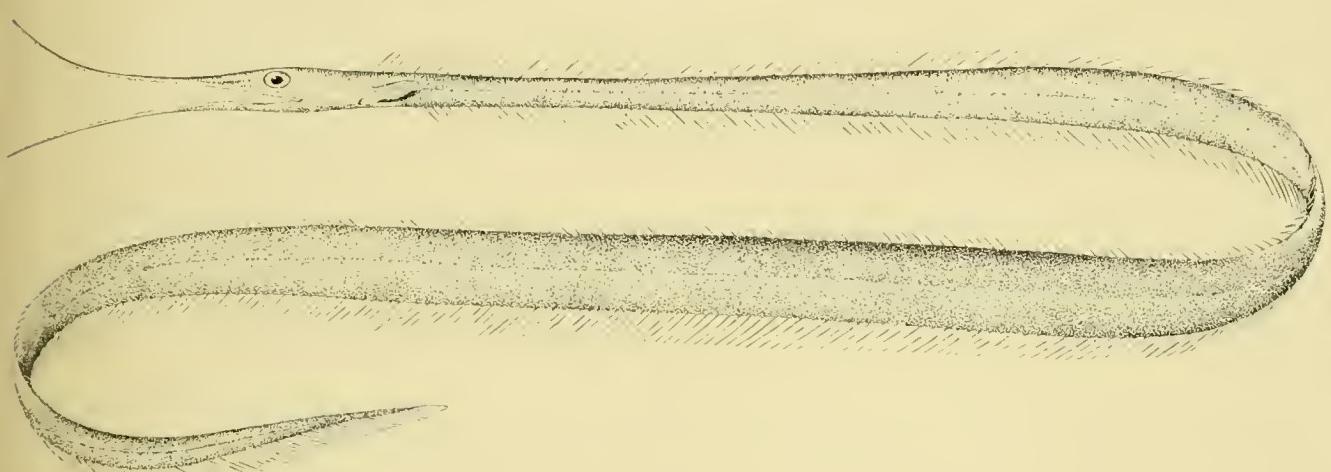
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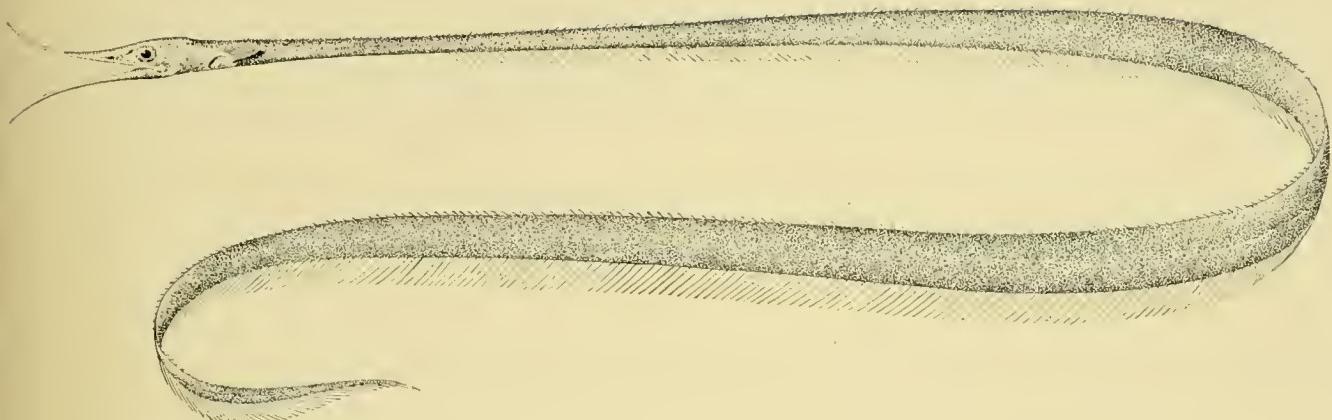


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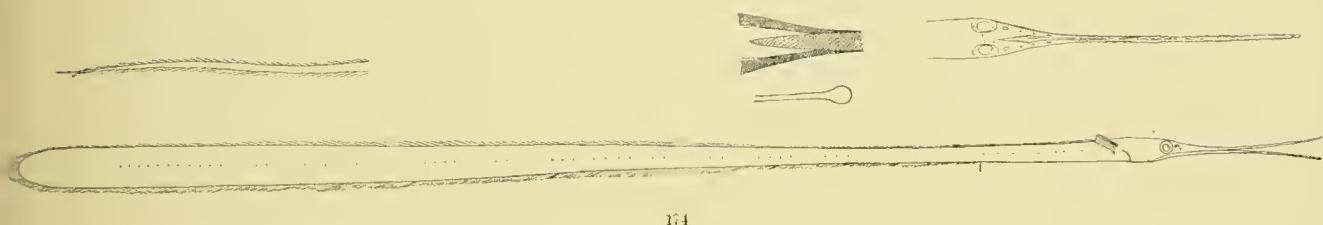
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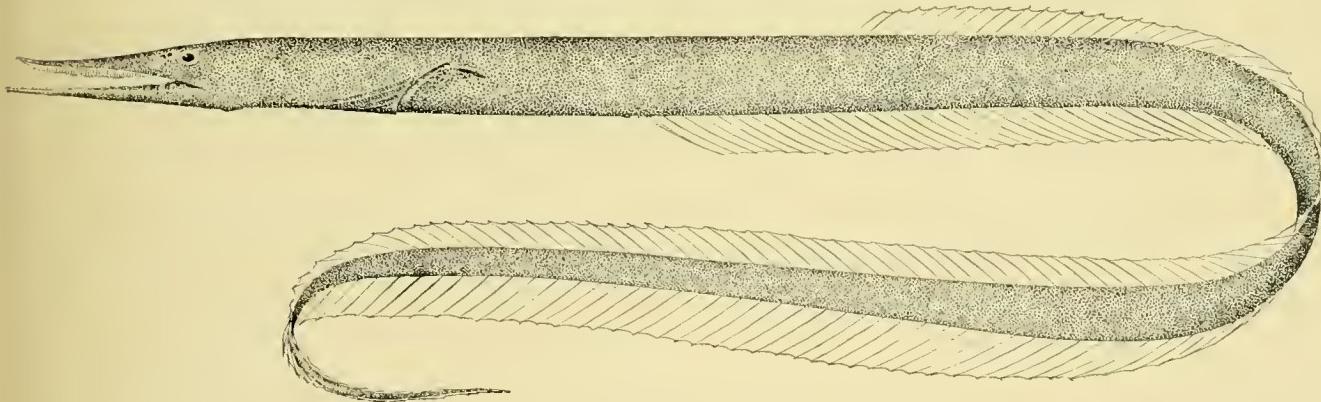
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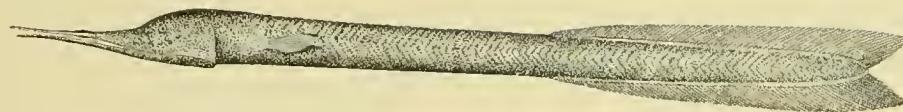


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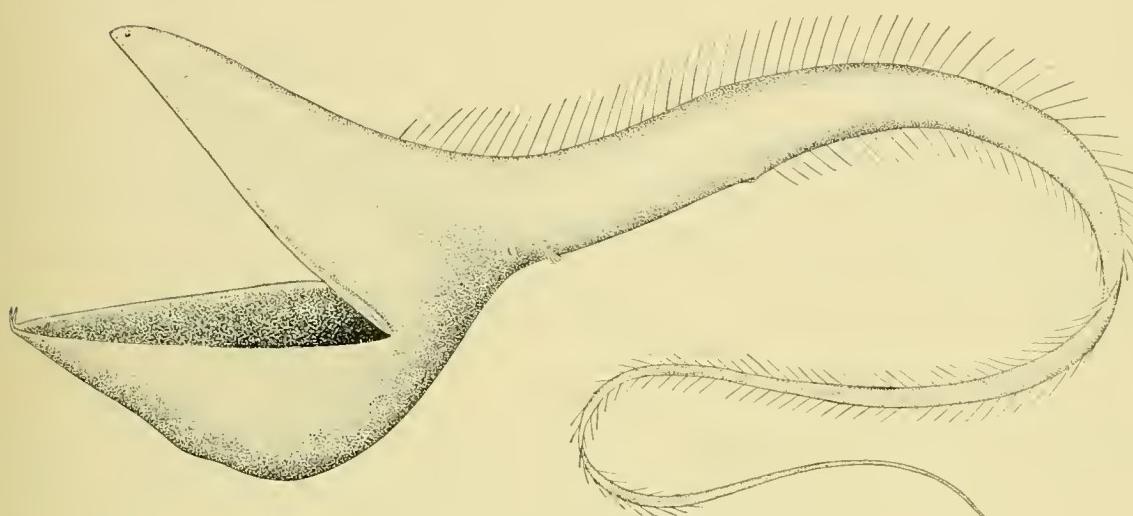
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174. LABICHTHYS INFANS (AFTER GÜNTHER). (p. 153.)

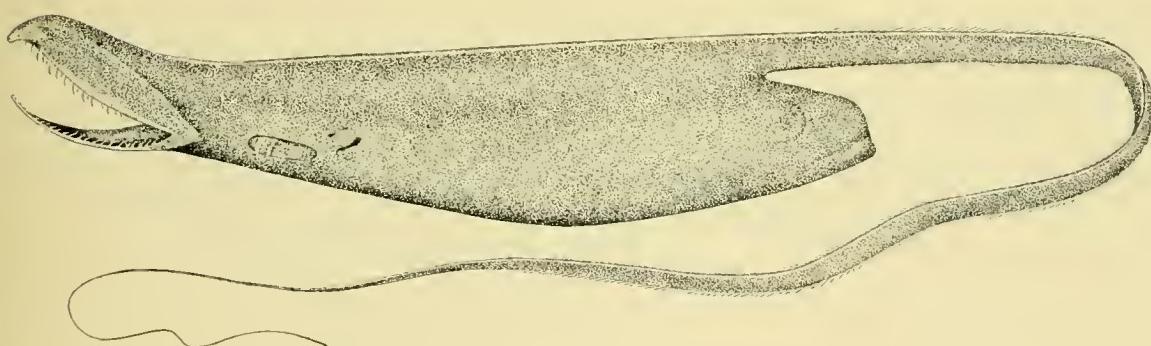
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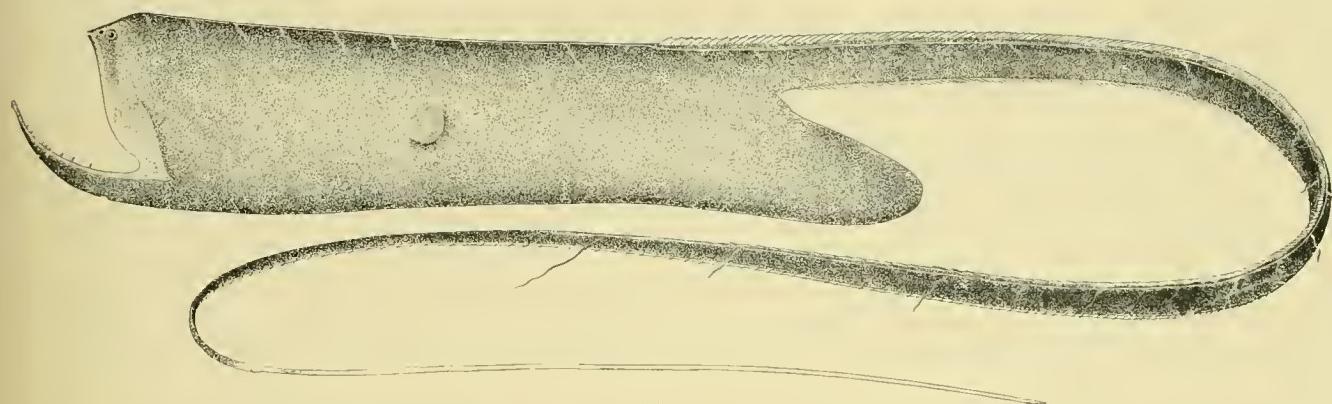


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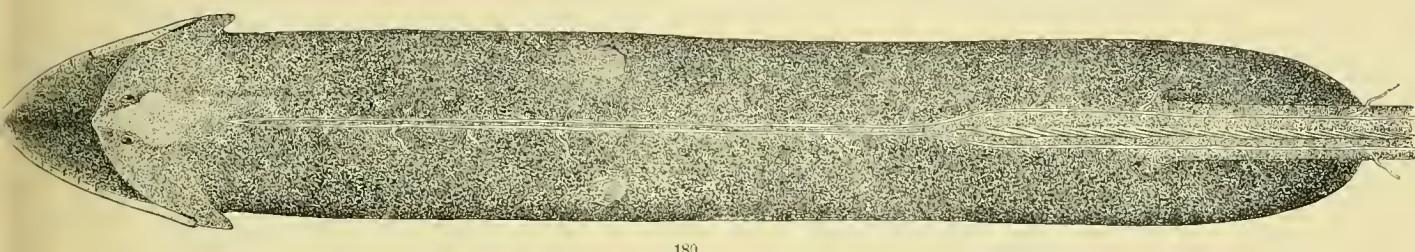
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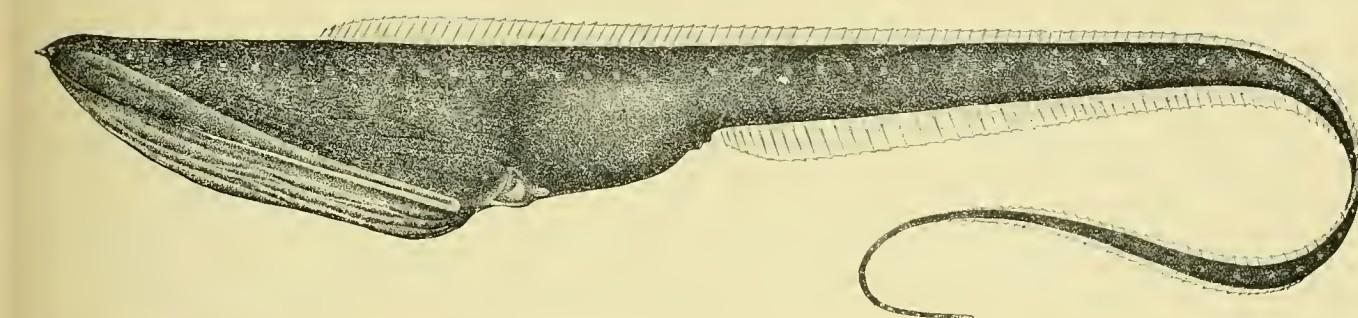
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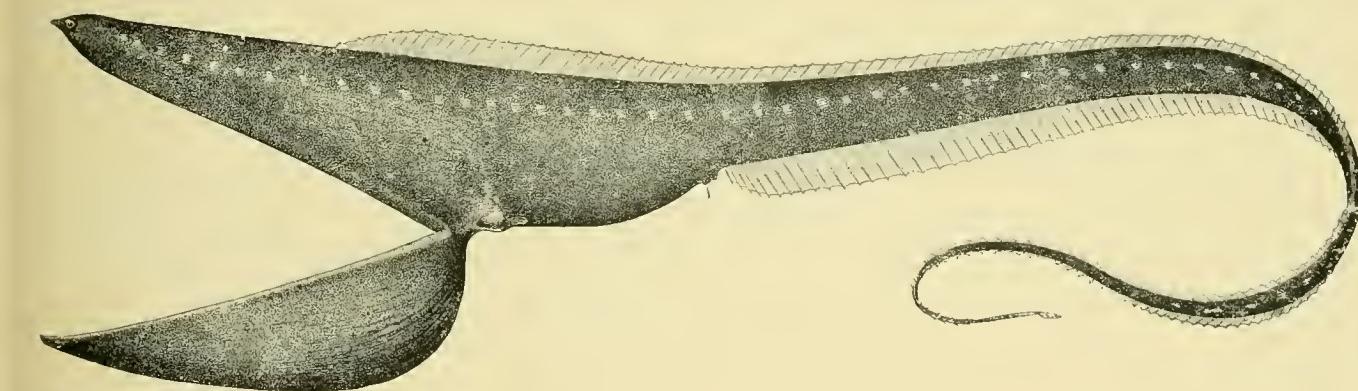
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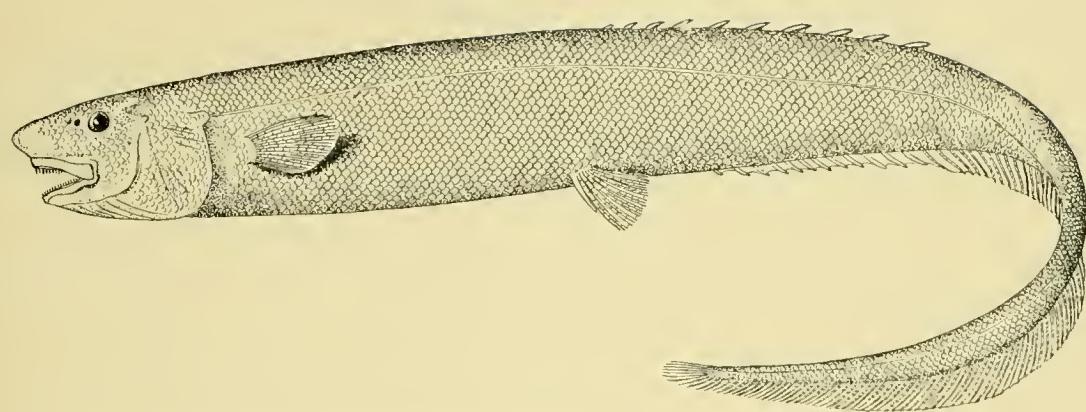


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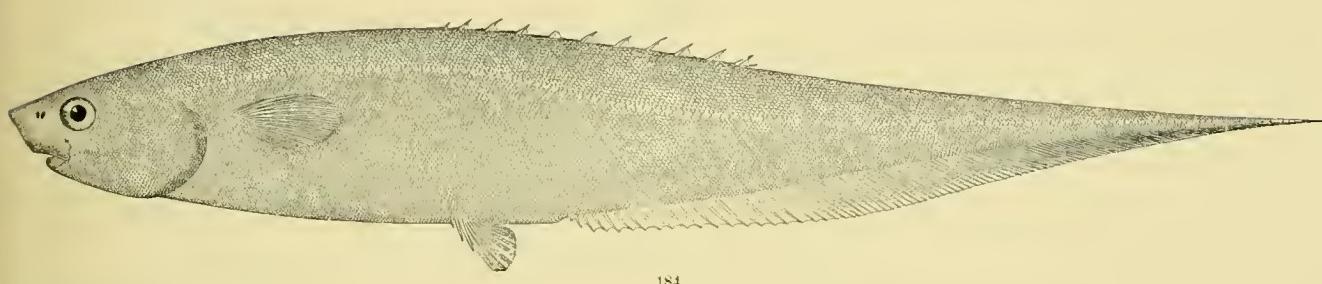


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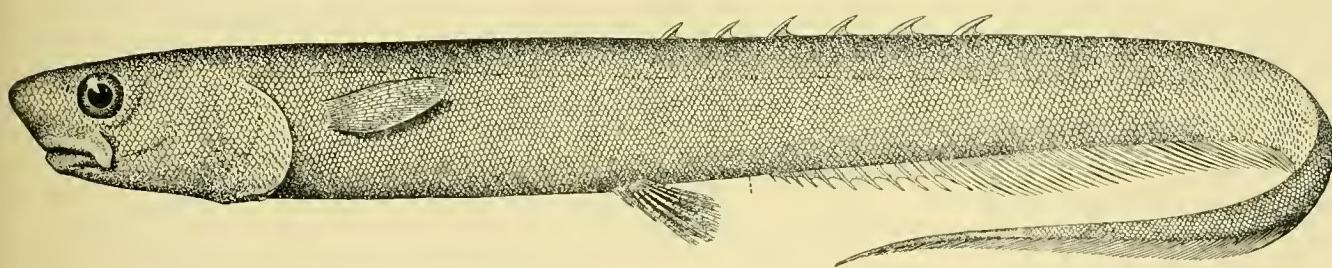
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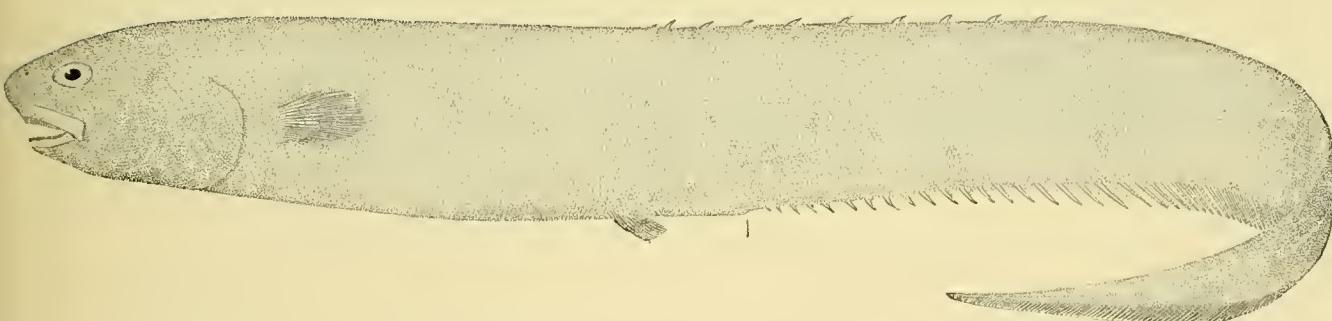
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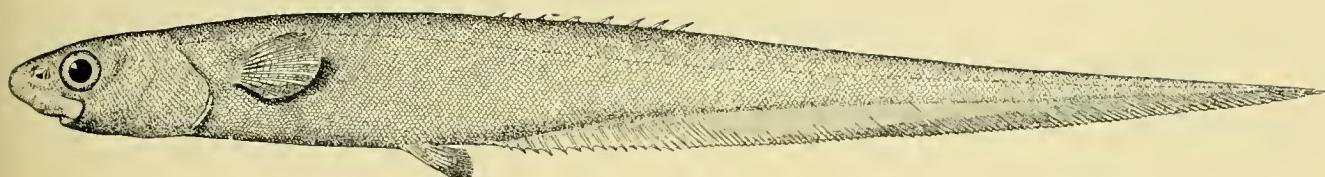
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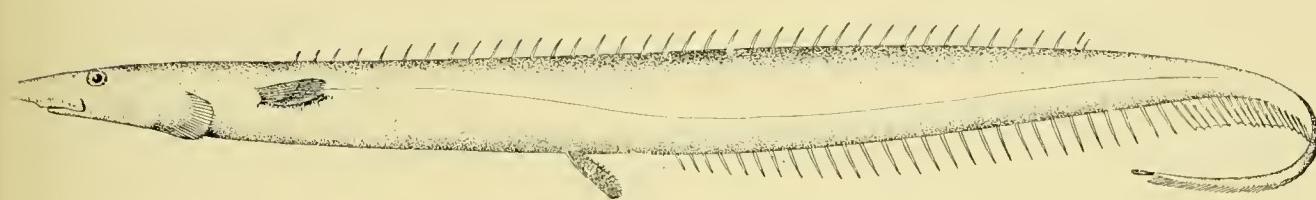
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183. *NOTACANTHUS NASUS.* (p. 164.)
185. *NOTACANTHUS BONAPARTII.* (p. 166.)

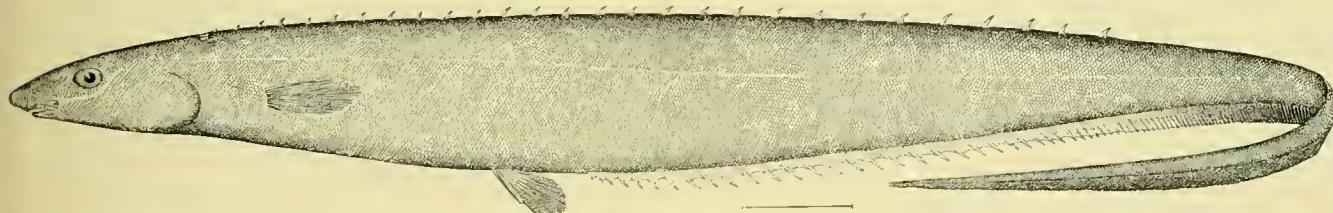
184. *NOTACANTHUS ANALIS.* (p. 165.)
186. *NOTACANTHUS PHASGANORUS.* (p. 167.)



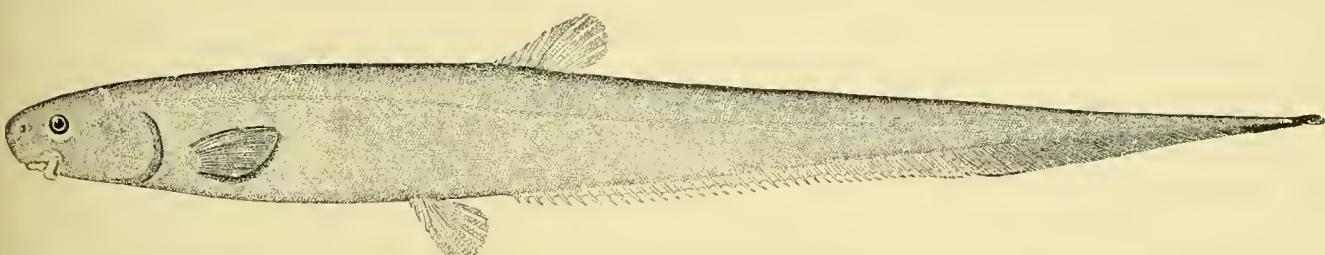
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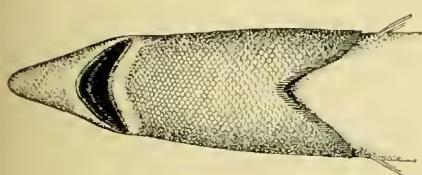
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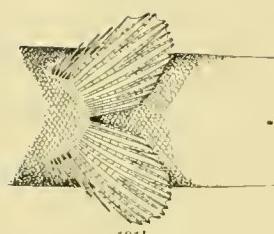
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187. *GIGLIOBLA MOSELEYI*. (p. 169.)
189. *MACDONALDIA ROSTRATA*. (p. 171.)

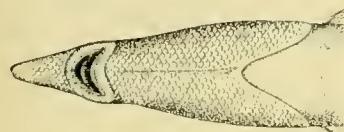
188. *POLYACANTHONOTUS RISSOANUS*. (p. 170.)
190. *LIPOPENYS GILLII*. (p. 173.)



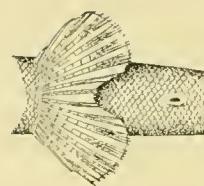
191a.



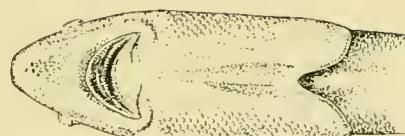
191b.



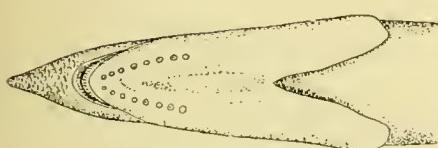
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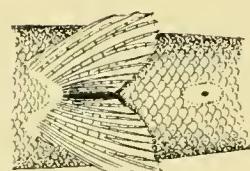
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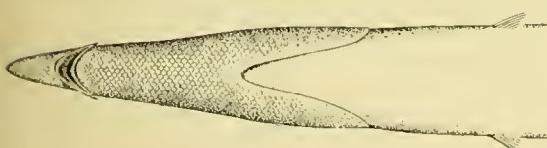
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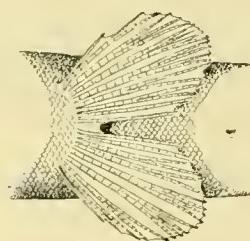
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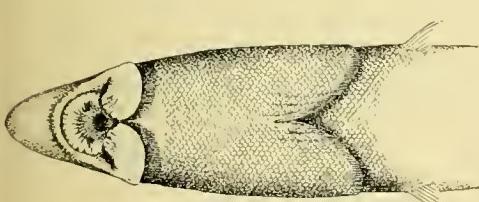
194b



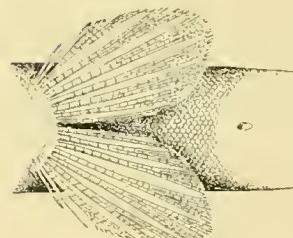
195a.



195b.



196a.



196b.

191a, b. *NOTACANTHUS ANALIS.* (p. 165.)

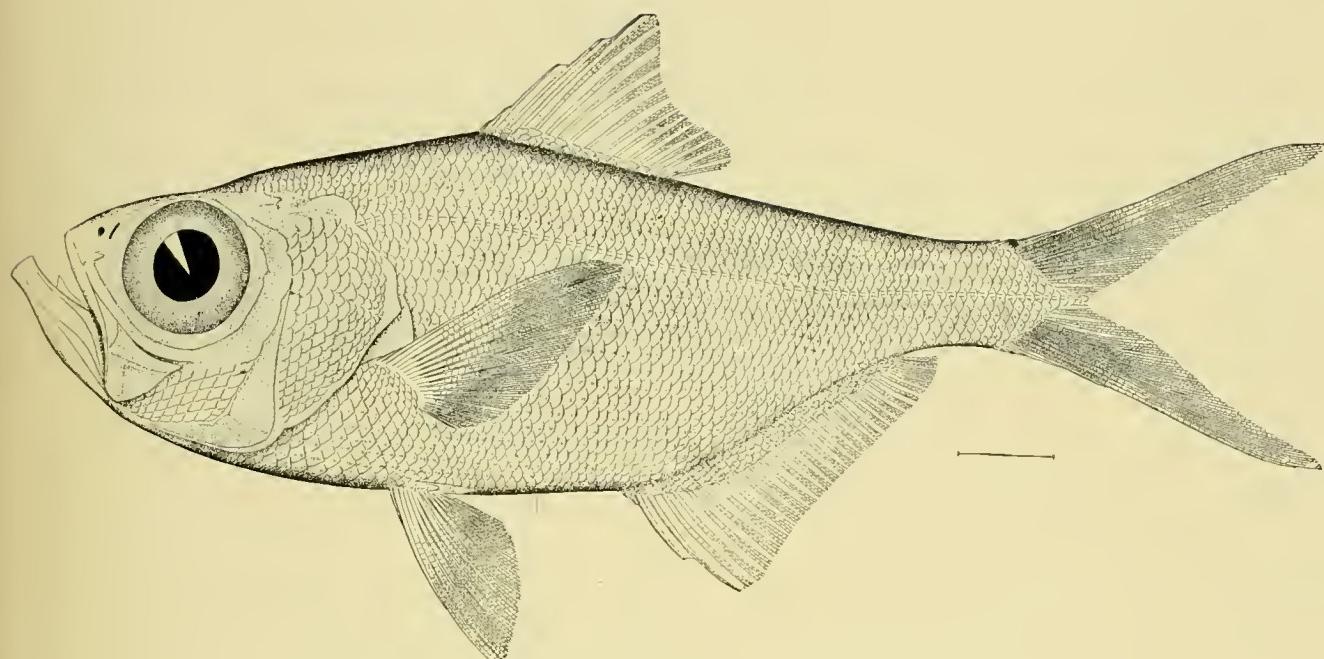
193. *GIGLIOGLIA MOSELEYI.* (p. 169.)

195a, b. *MACDONALDIA ROSTRATA.* (p. 171)

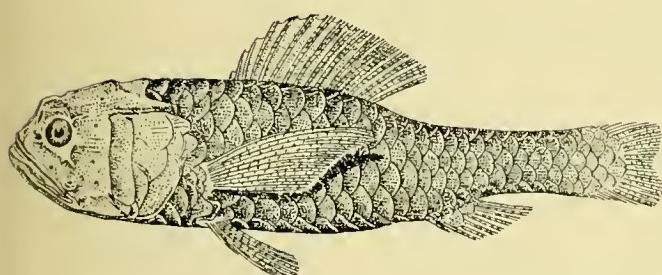
192a, b. *NOTACANTHUS SEXSPINIS.* (p. 163.)

194a, b. *POLYACANTHONOTUS RISSOANUS.* (p. 170.)

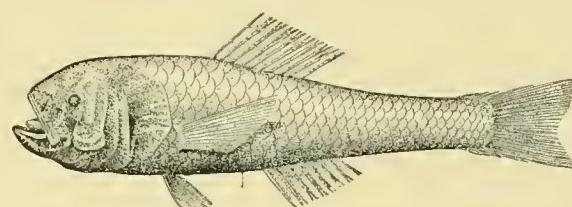
196a, b. *LIPOPENYS GILLII.* (p. 173.)



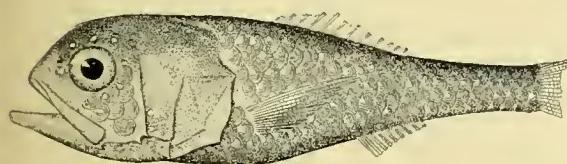
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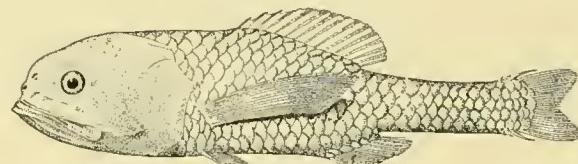
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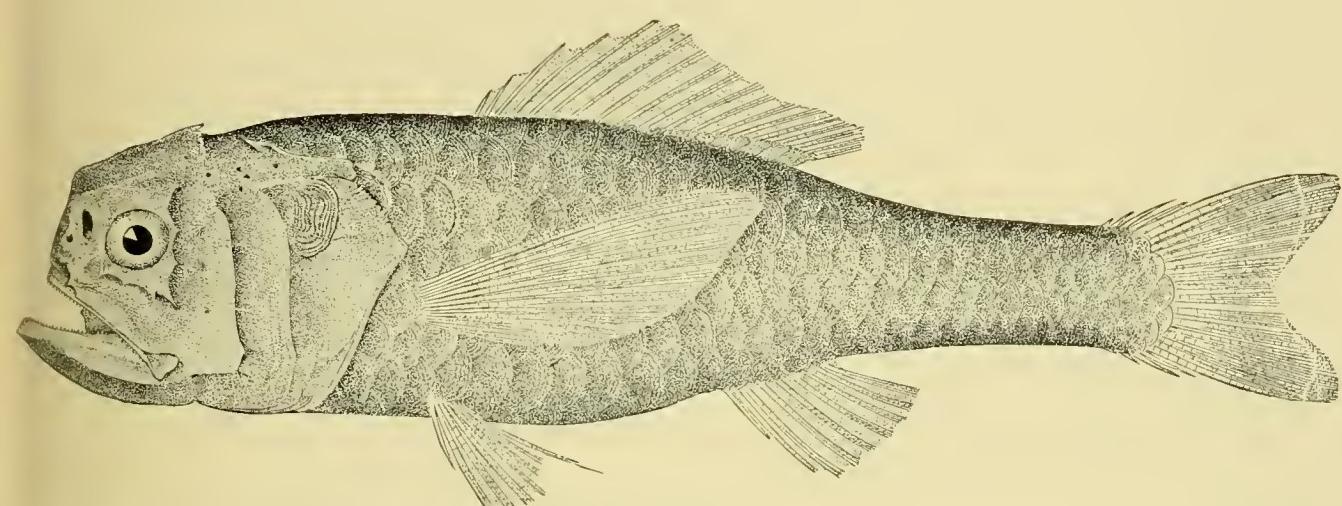
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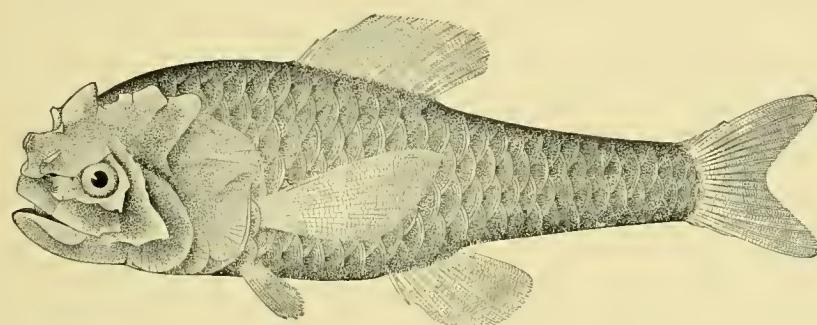
200a

197. *BERYX SPLENDENS.* (p. 176.)199. *SCOPELOGADUS COCLES.* (p. 182.)200a. *PLECTROMUS CRASSICEPS.*198. *MELAMPHIES TYPHOIOPS.* (p. 177.)200. *POROMITRA CAPITO.* (p. 183.)

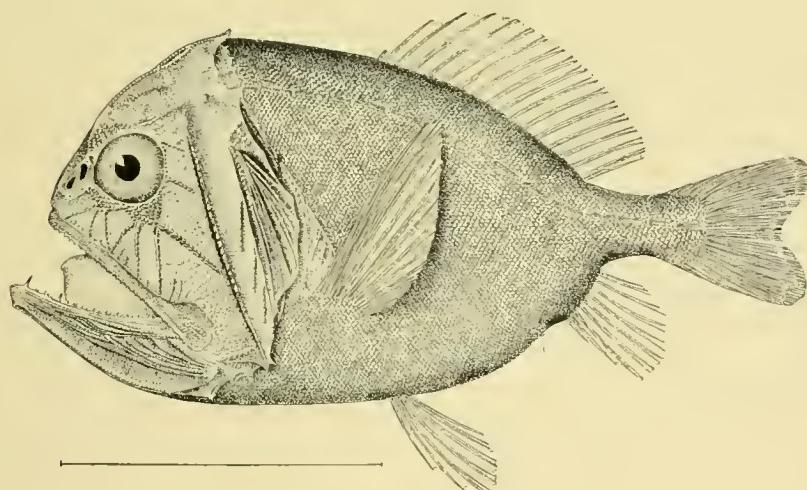
(p. 180.)



201

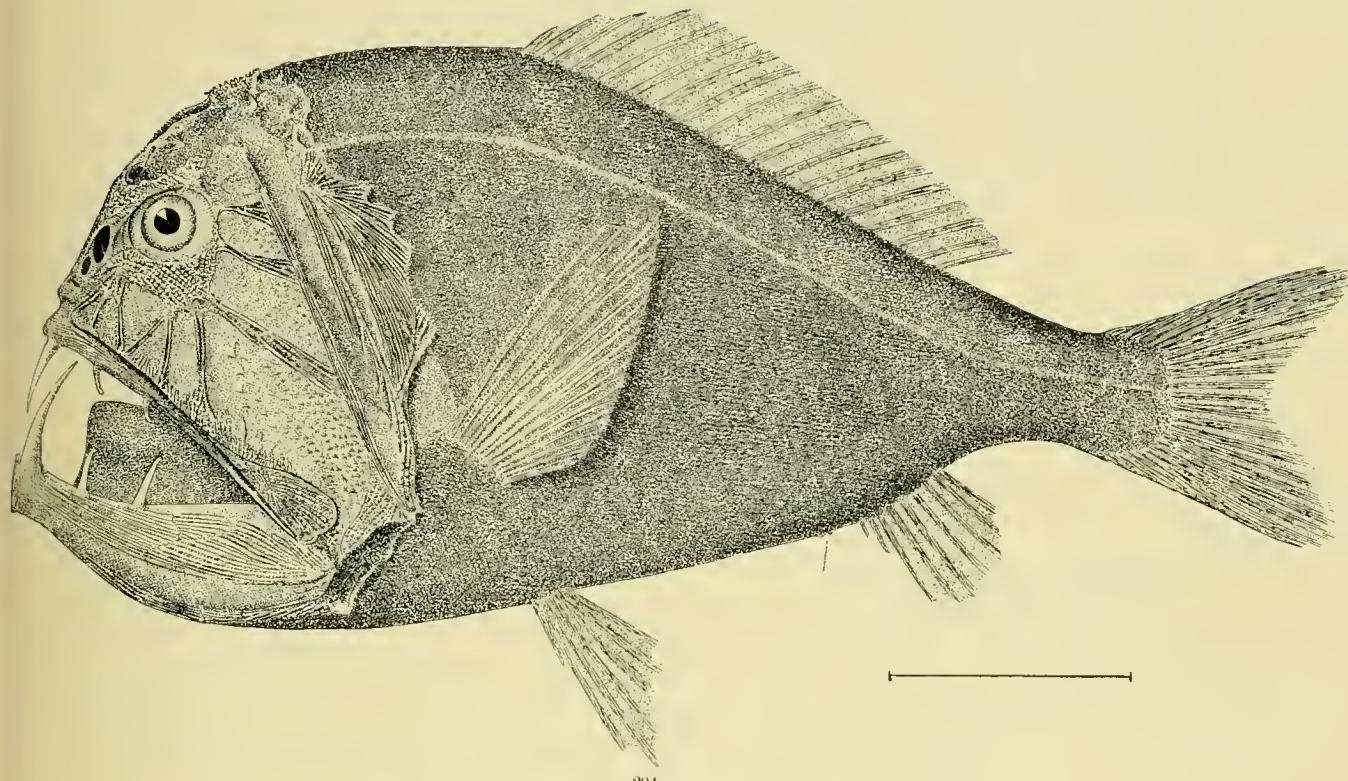


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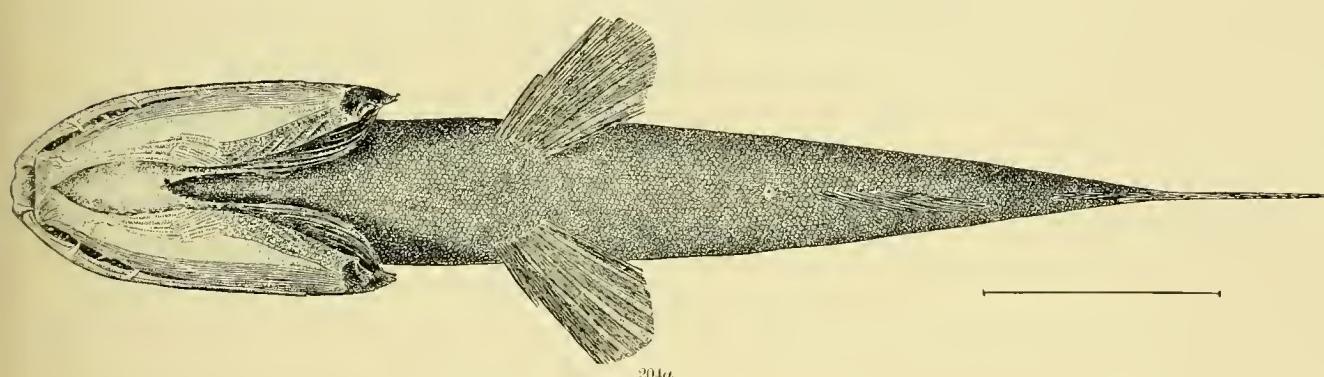


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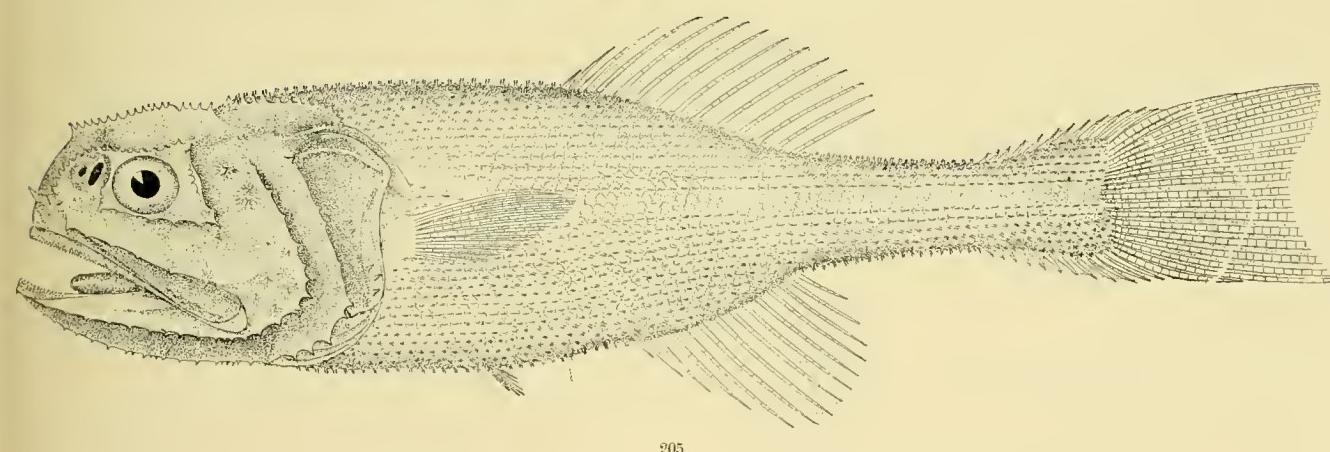
201. *PLECTROMUS SUBORBITALIS.* (p. 179.)202. *PLECTROMUS BEANII.* (p. 179.)203. *ANOPLOGASTER CORNUTA.* (p. 184.)



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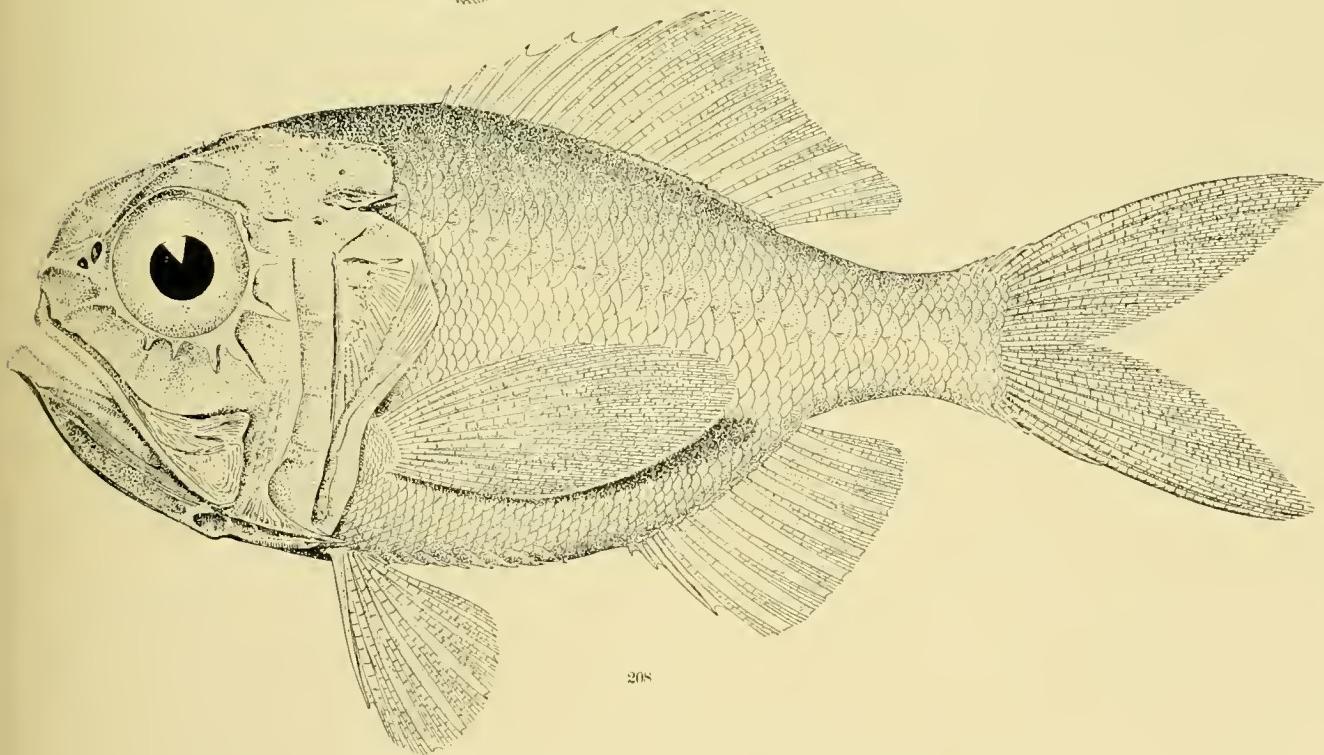
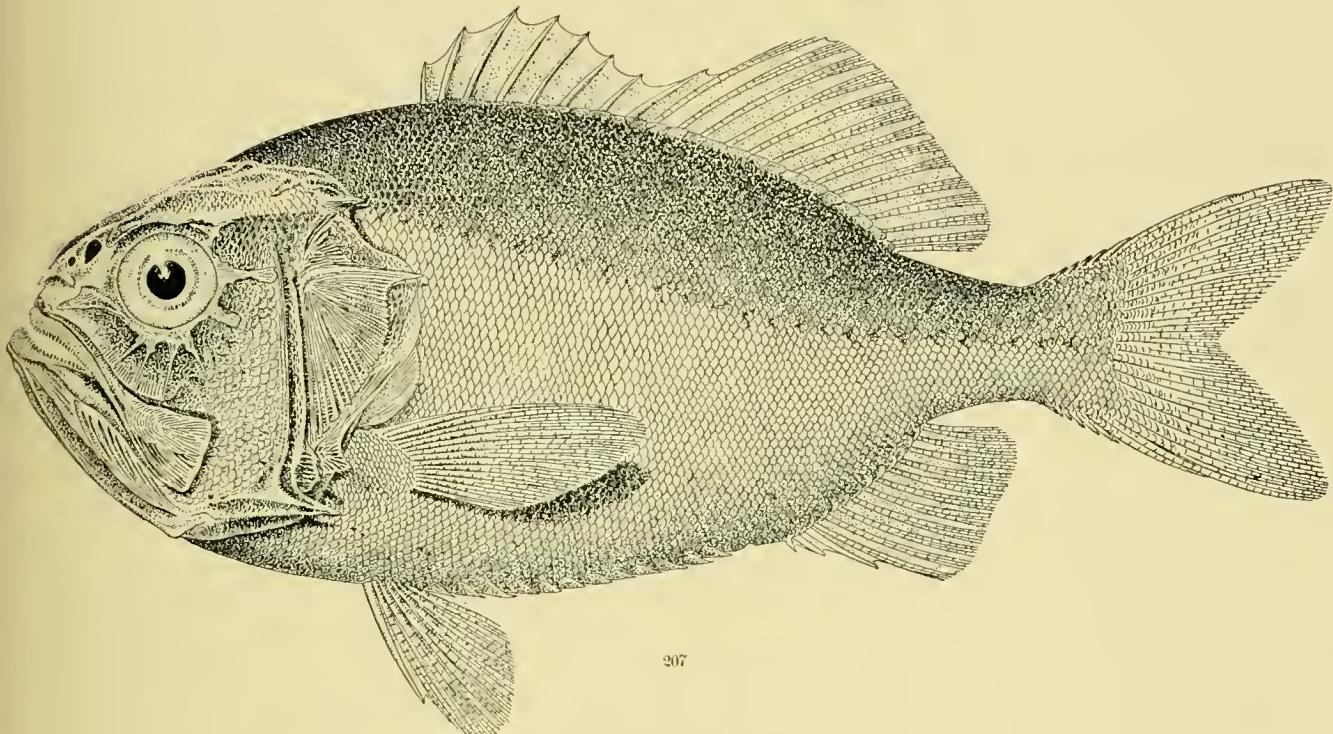
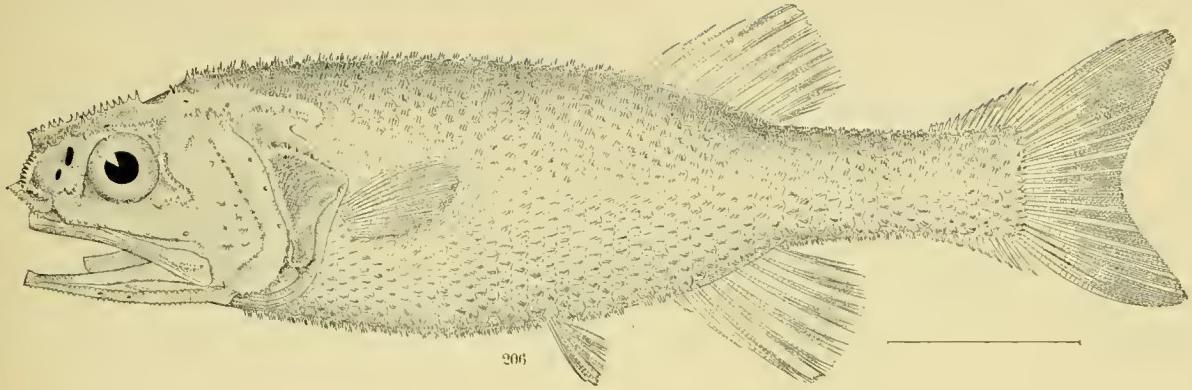
204a

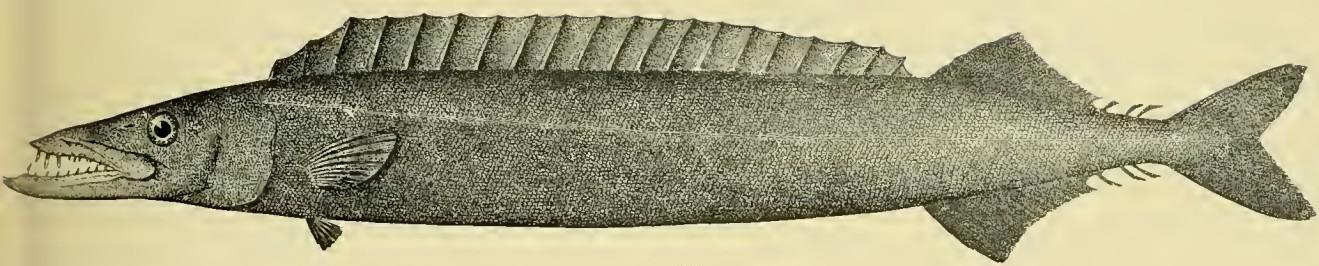


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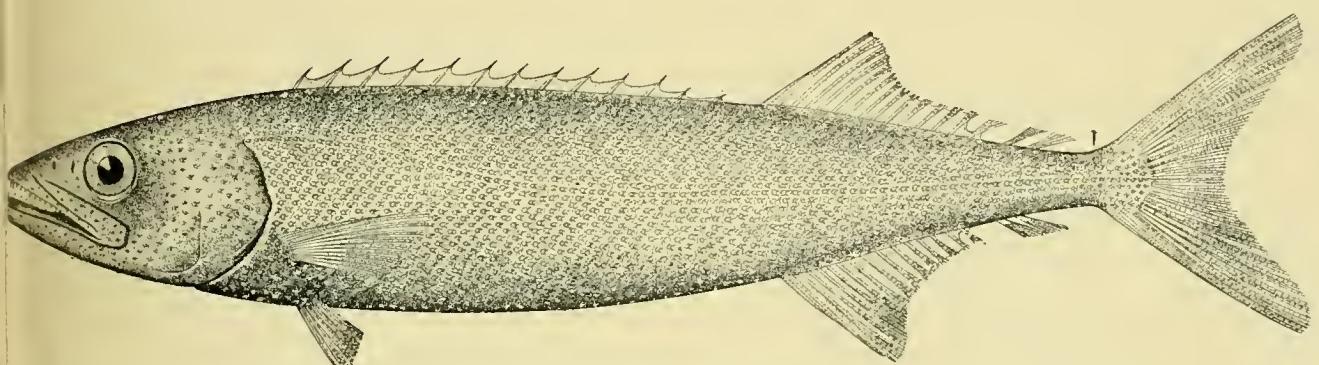
204, 204a. CAULOLEPIS LONGIDENS. (p. 185.)

205. STEPHANOBERYX MONÆ. (p. 186.)

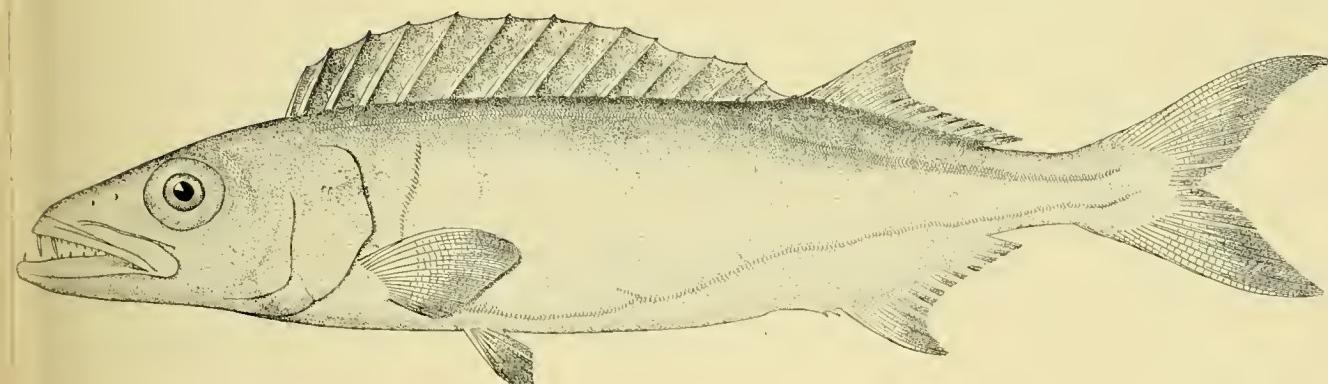
206. *STEPHANOBERYX GILLII.* (p. 187.)208. *HOPLOSTETHUS MEDITERRANEUS.* (p. 189.)207. *TRACHICHTHYS DARWINII.* (p. 188.)



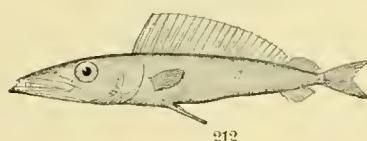
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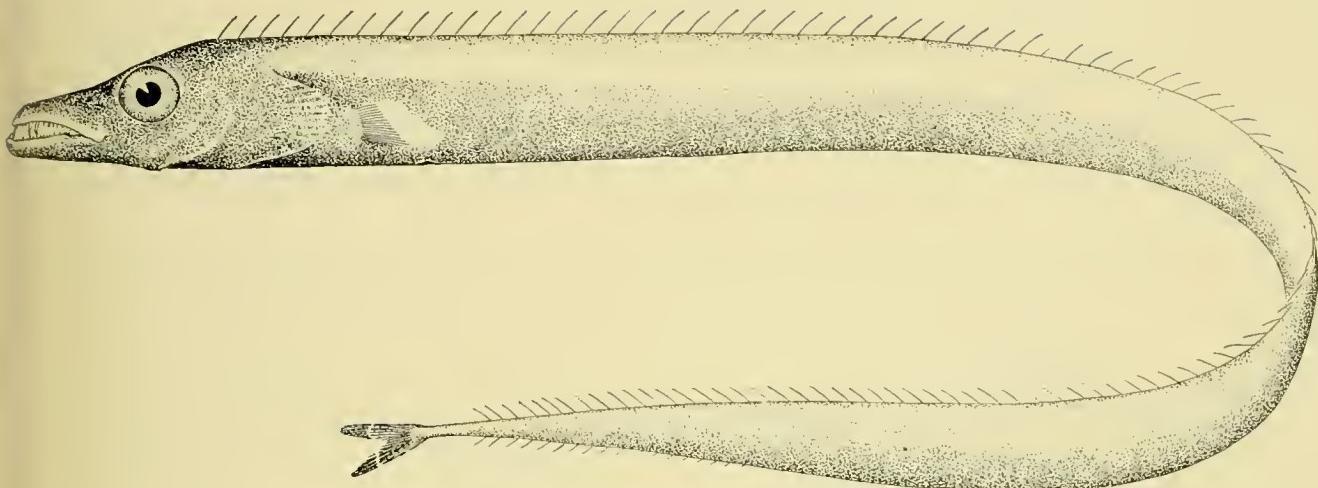
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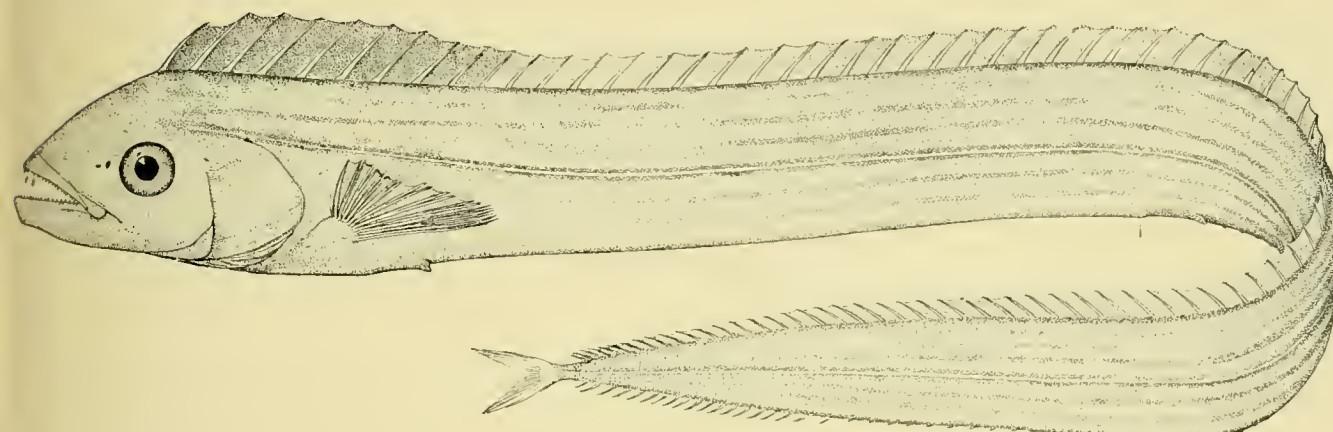
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209. *THYRSITOPS VIOLA CEUS*. (p. 195.)
211. *EPINNULA MAGISTRALIS*. (p. 198.)

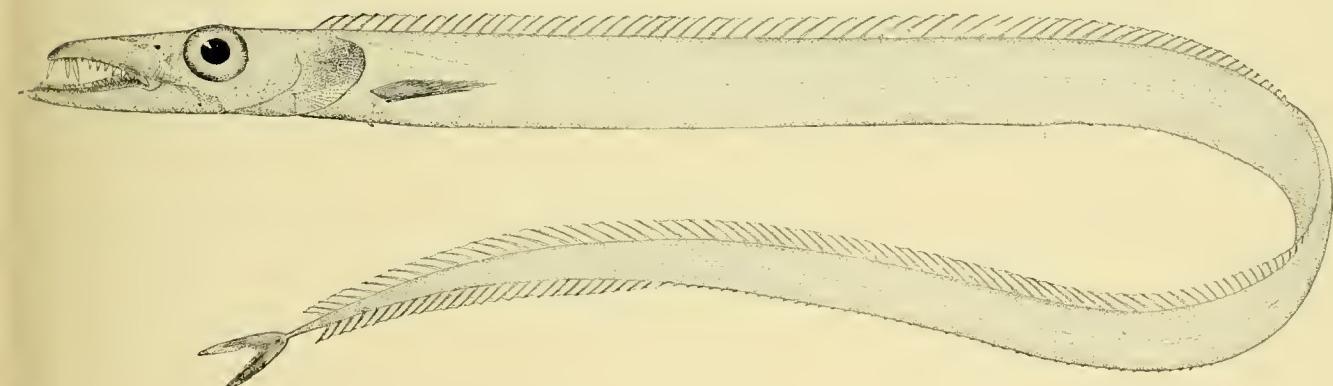
210. *RUVETTUS PRETIOSUS*. (p. 196.)
212. *DICROTUS PARVIPINNIS*. (p. 201.)



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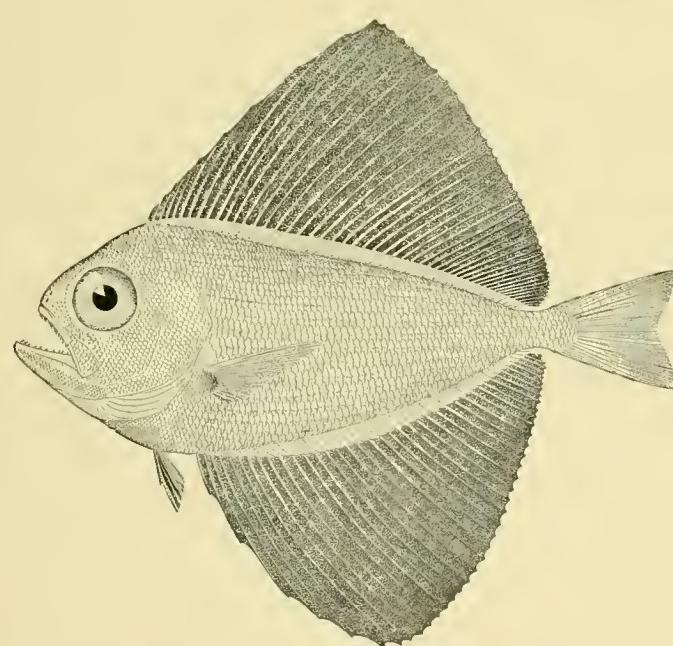
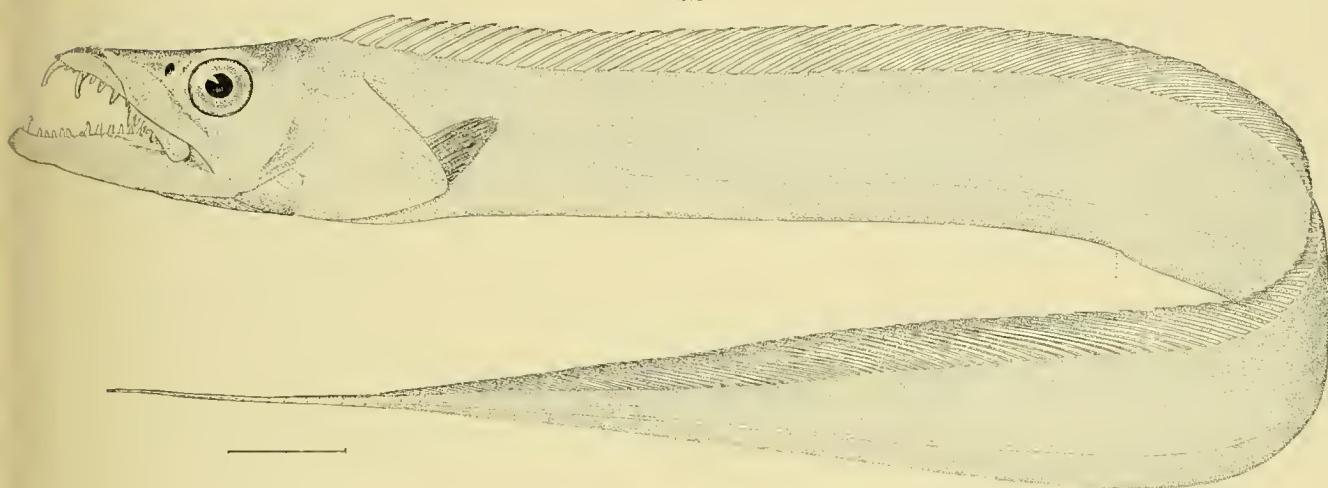
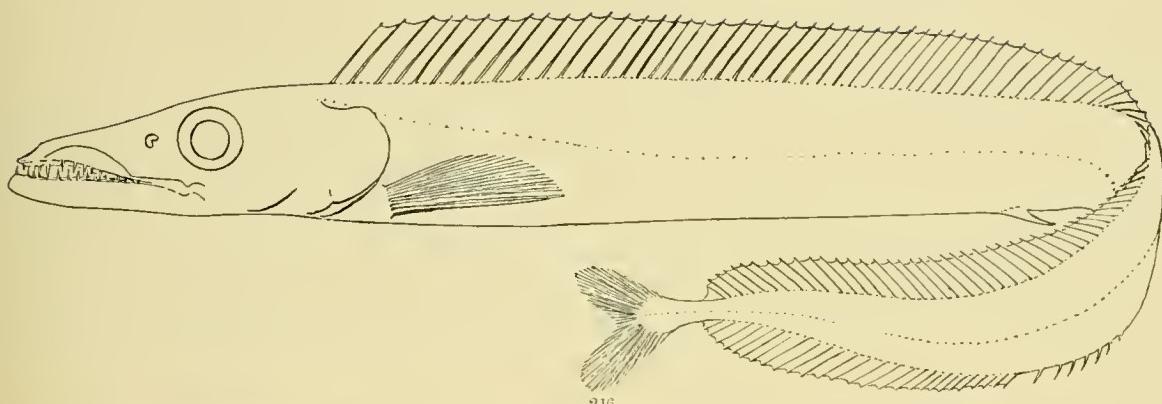
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213. *LEPIDOPUS CAUDATUS.* (p. 203.)
215. *BENTHODESMUS ATLANTICUS.* (p. 205.)

214. *EVOXYMETOPON TENIATUS.* (p. 204.)



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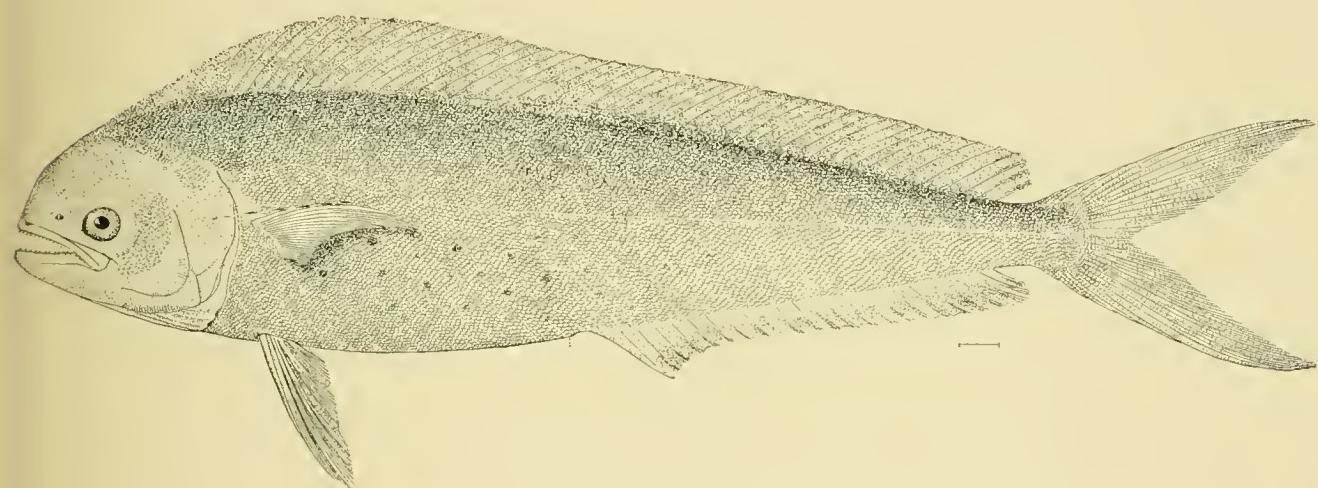
216. APHANOPIUS CARBO. (p. 207.)

217. TRICHIURUS LEPTURUS. (p. 208.)

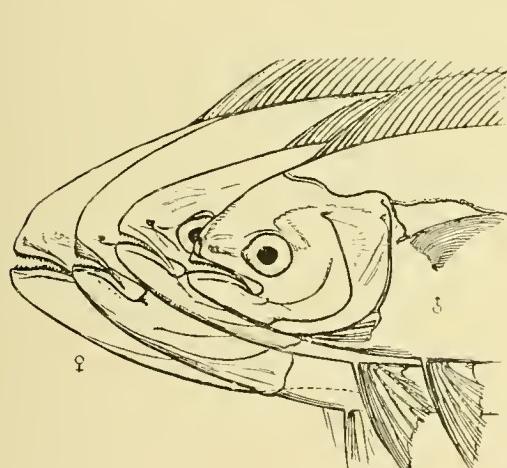
218. PTERACLIS CAROLINUS. (p. 212.)



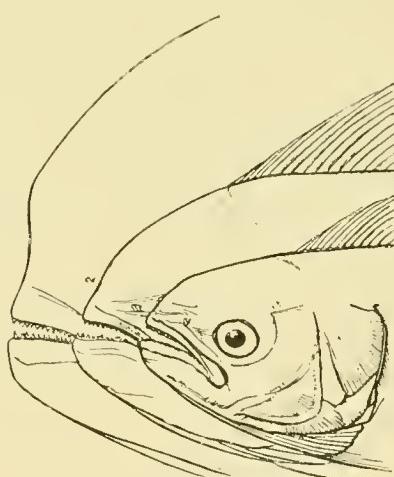
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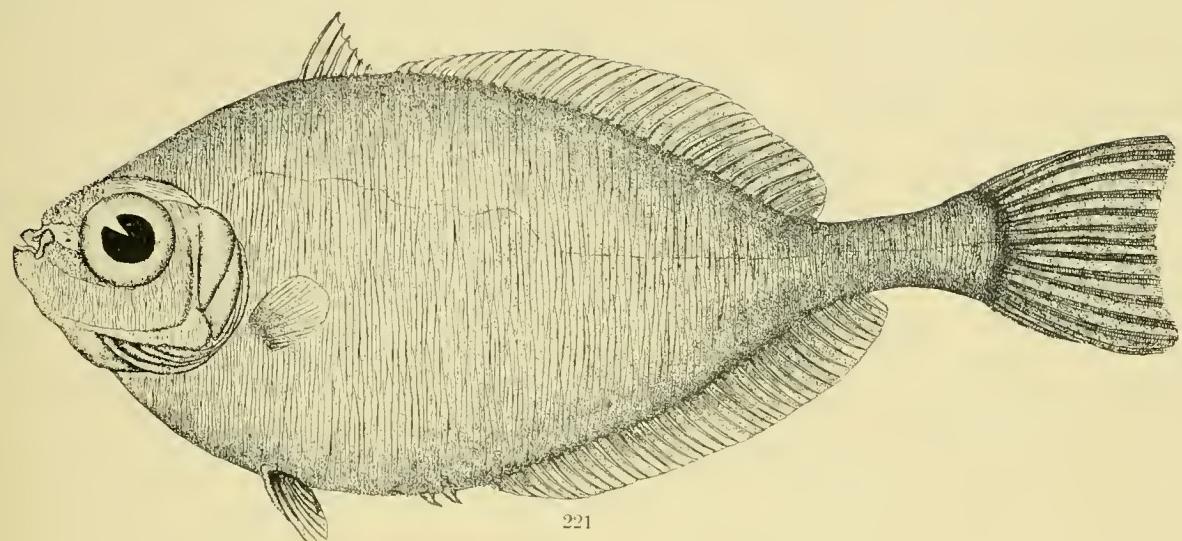
220a



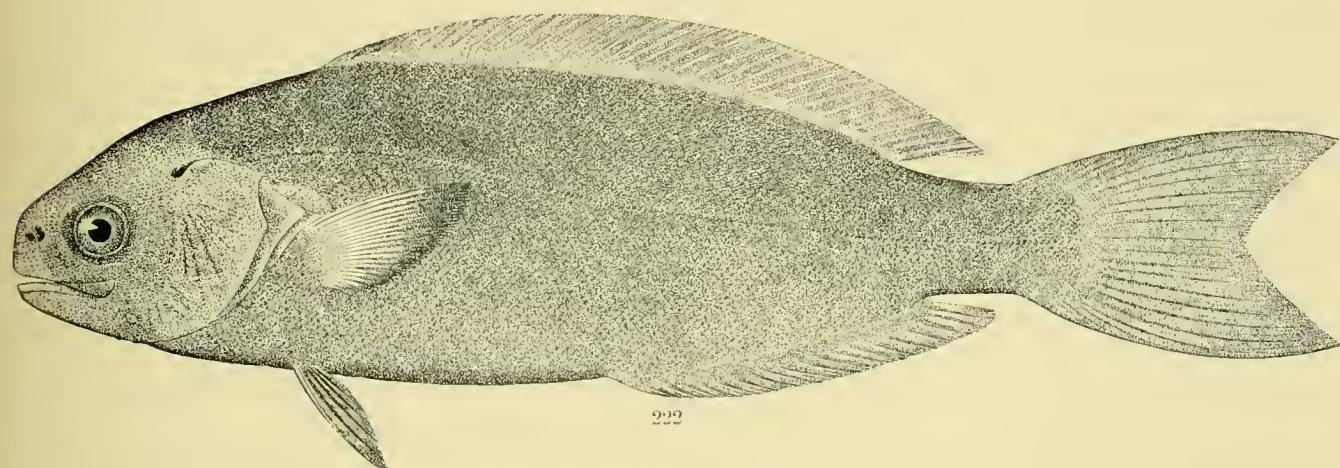
220b

219. *CORYPHENA HIPPURUS* (old male). (p. 209.)
220a, b. *CORYPHENA HIPPURUS*. (p. 209.)

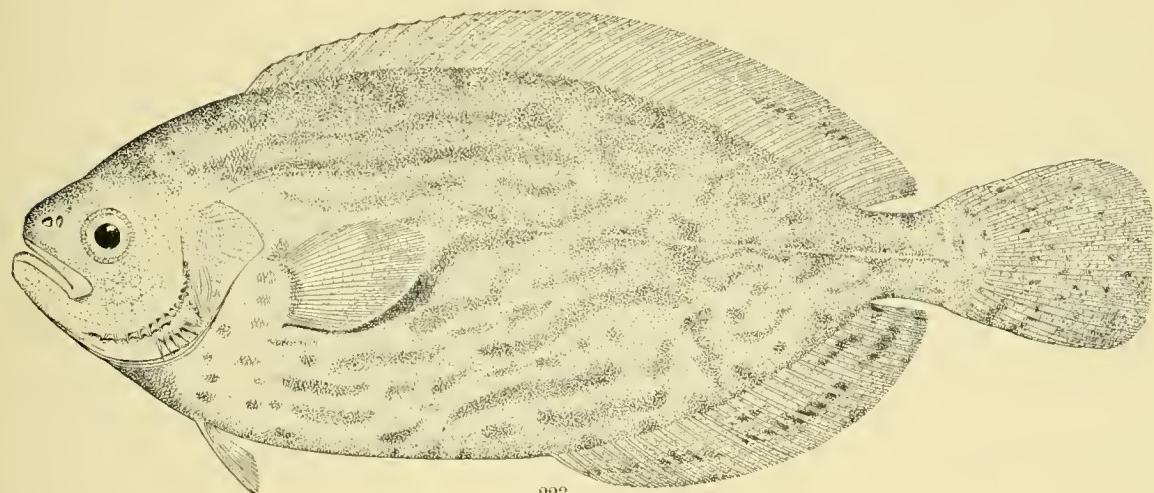
220. *CORYPHENA HIPPURUS* (young). (p. 209.)



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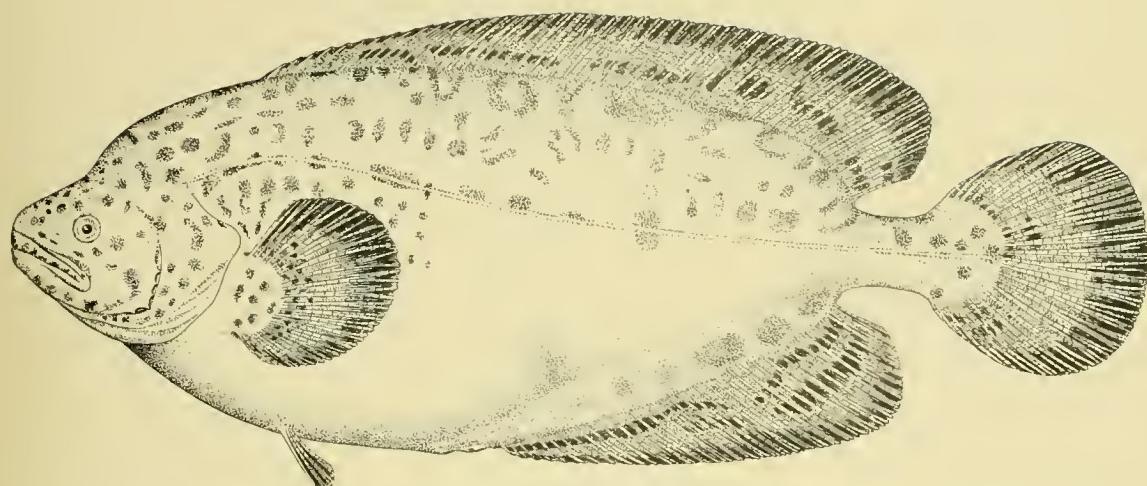


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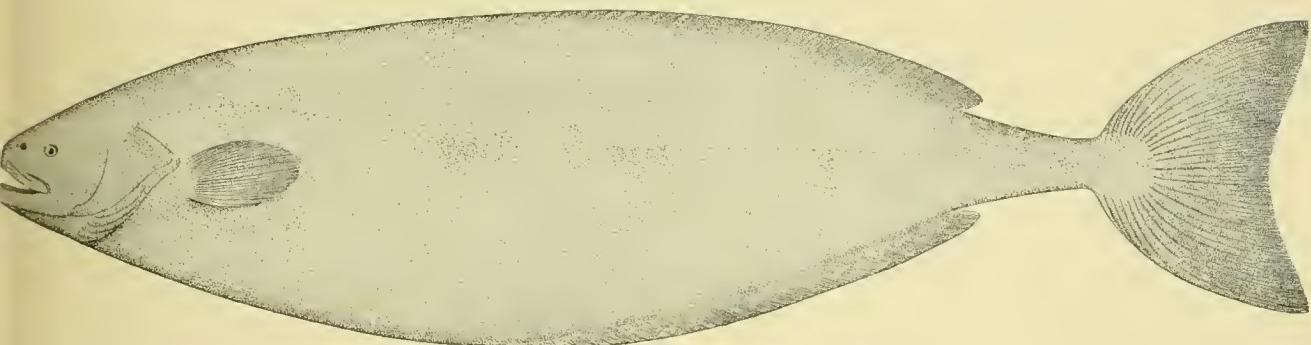
221. *GRAMMICOLEPIS BRACHIUSCULUS.* (p. 218.)

222. *CENTROLOPHUS POMPILUS.* (p. 214.)

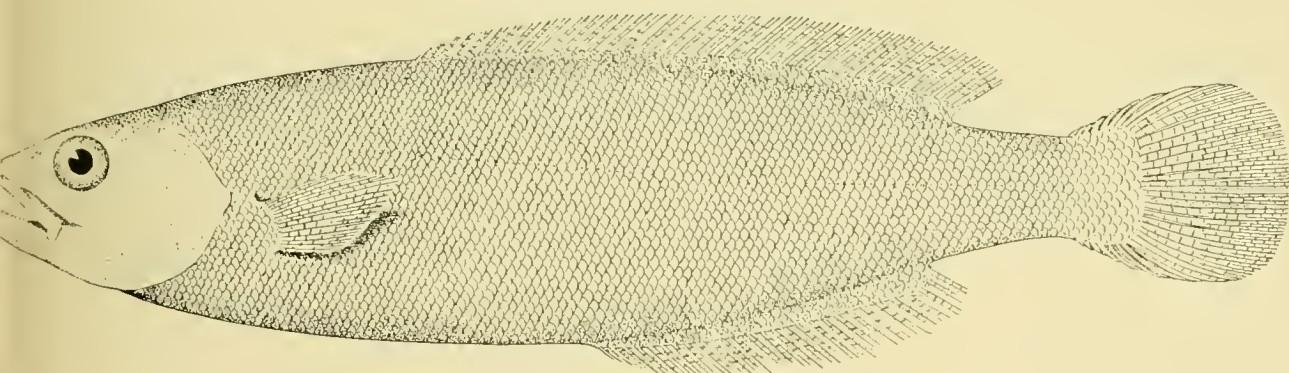
223. *SCHEDOPHILUS MEDUSOPHAGUS.* (p. 214.)



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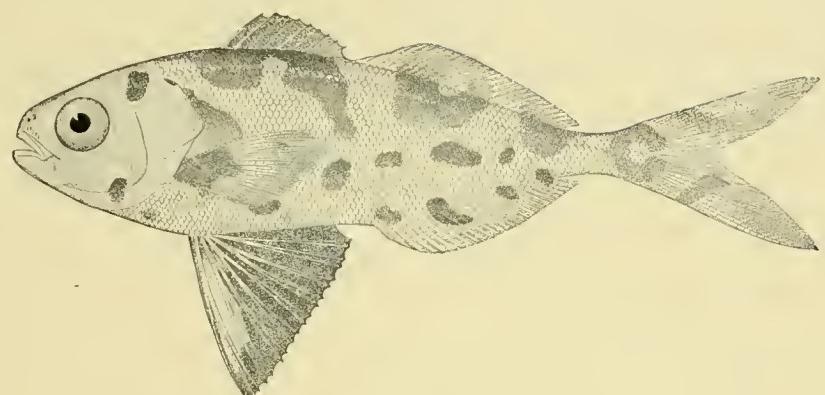
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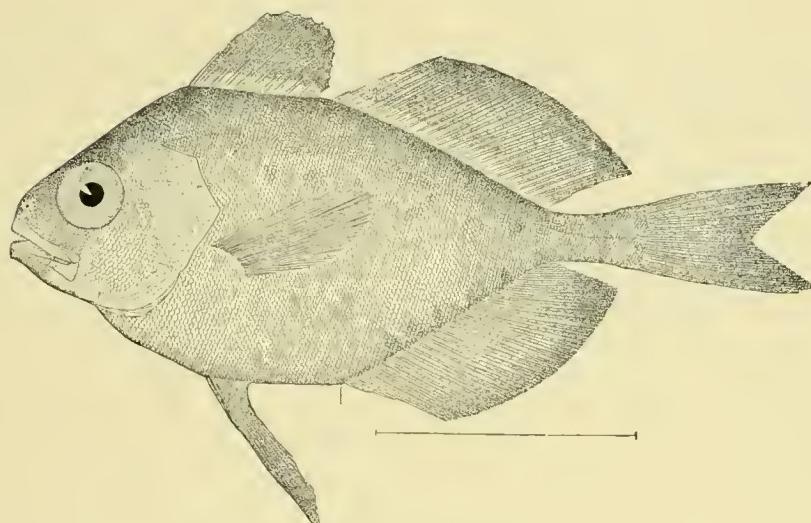
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224. *Icosteus enigmaticus*. (p. 215.)
226. *Icichthys lockingtoni*. (p. 216.)

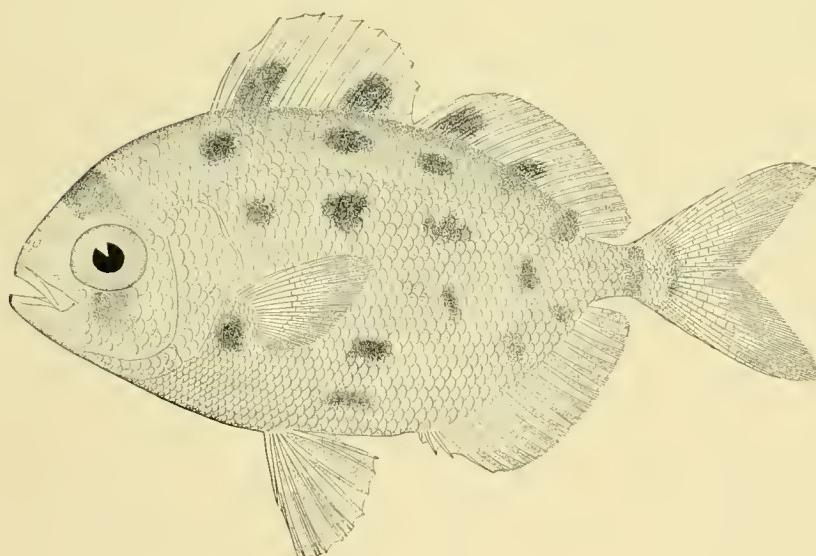
225. *Acrotus willoughbyi*. (p. 217.)



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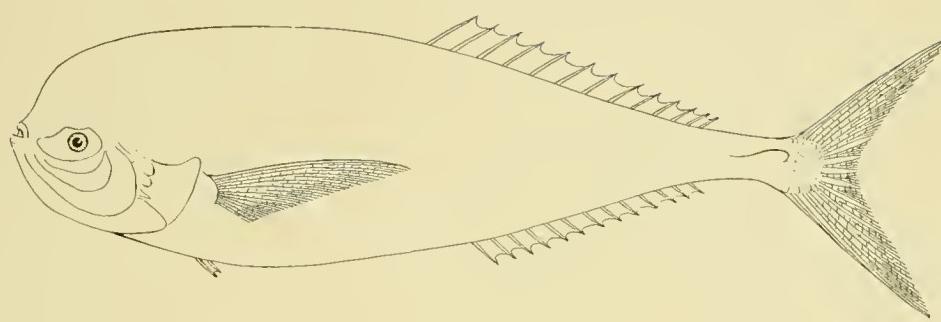


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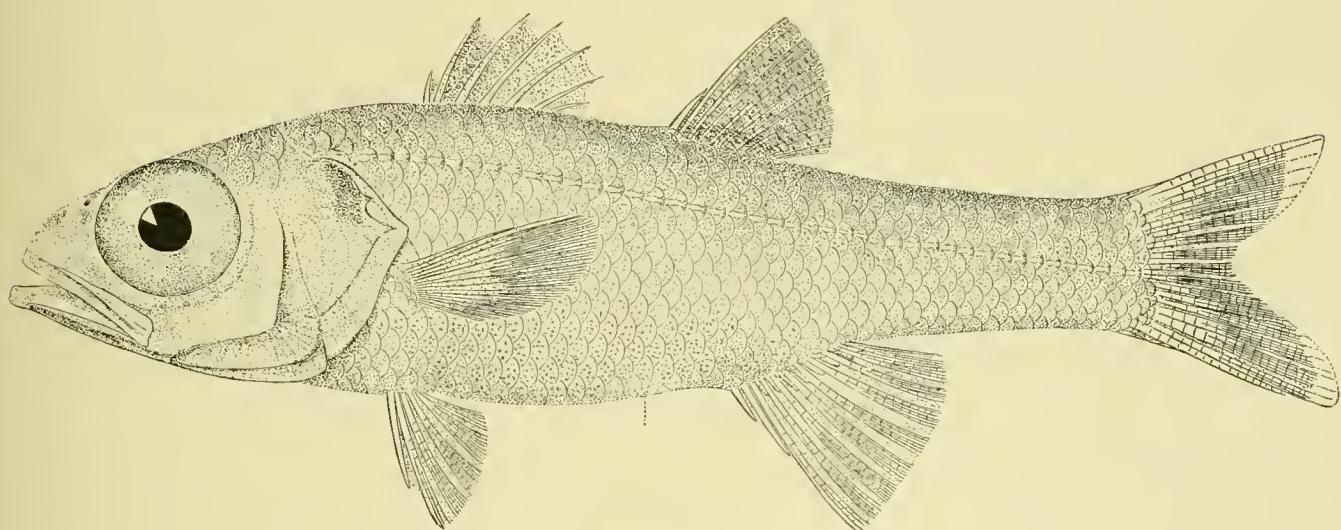
227. *NOMEUS GRONOVII*. (p. 220.)

229. *PSENES MACULATUS*. (p. 221.)

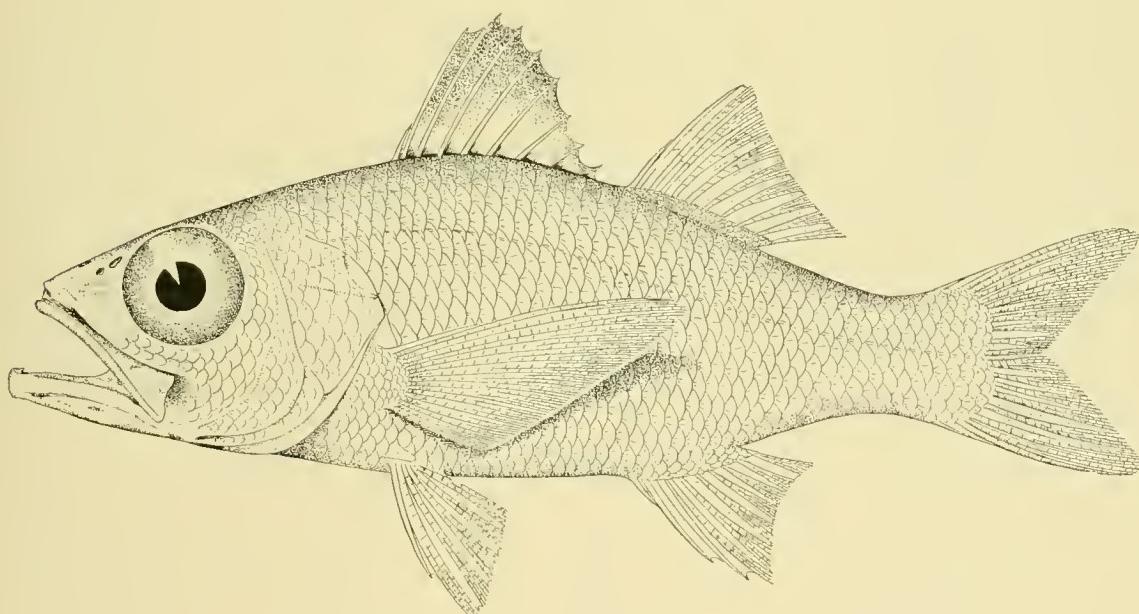
228. *PSENES PELLUCIDUS*. (p. 221.)



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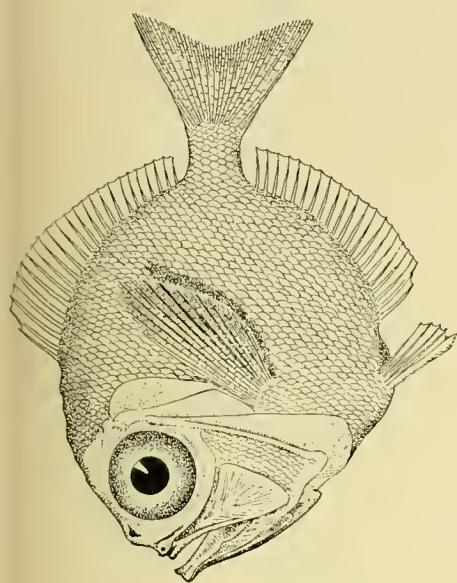


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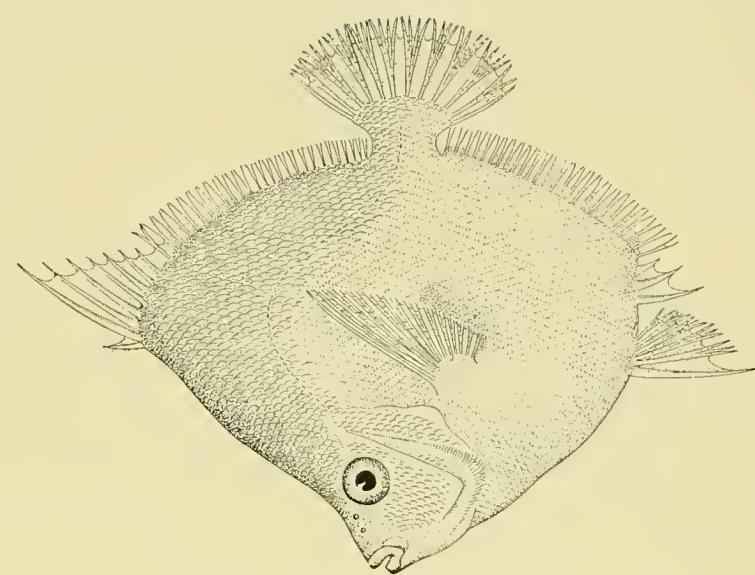


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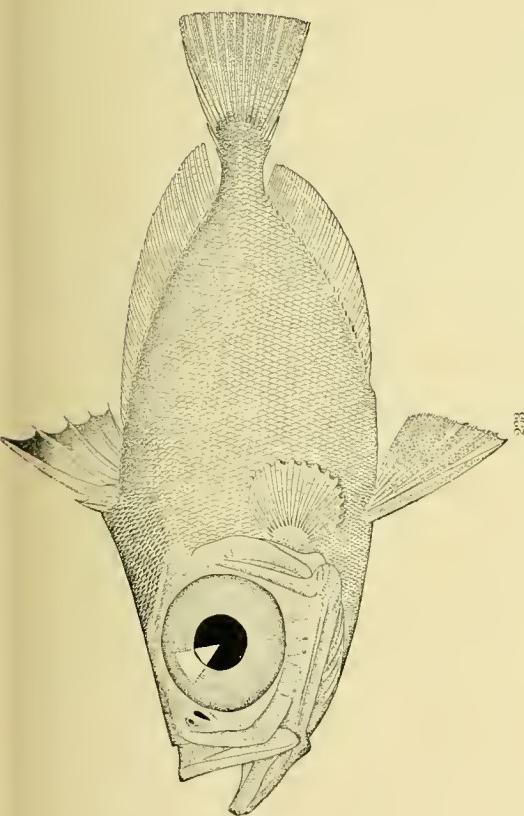
230. *LUVARUS IMPERIALIS*. (p. 222.)232. *VERILUS SORDIDUS*. (p. 240.)231. *GLOSSAMIA PANDIONIS*. (p. 231.)



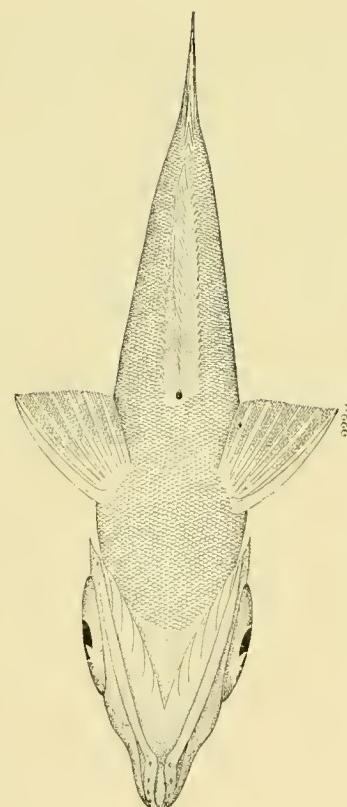
234



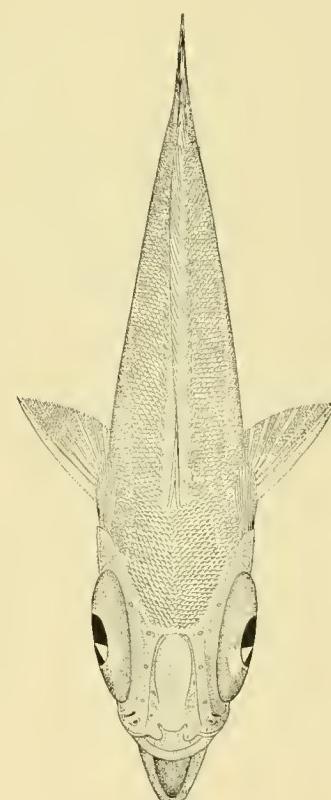
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235. *ANTIGONA CAPROS*. (p. 239.)

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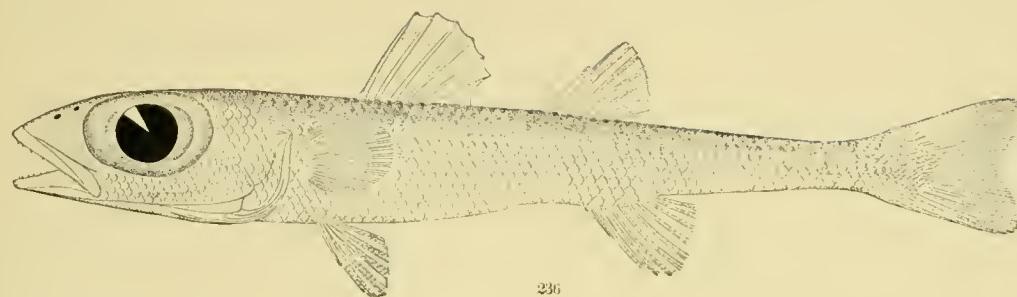


234a

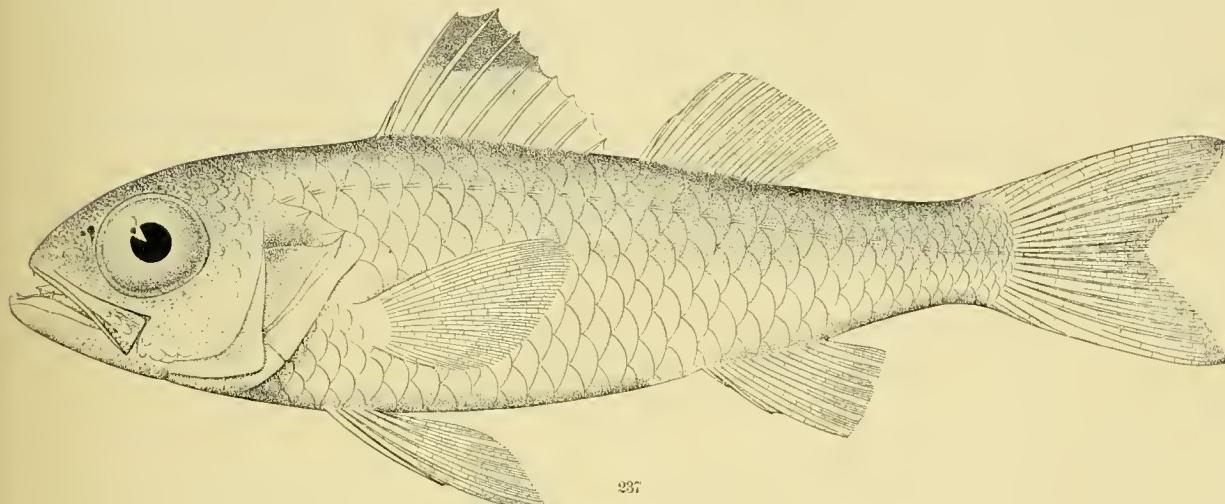


234b

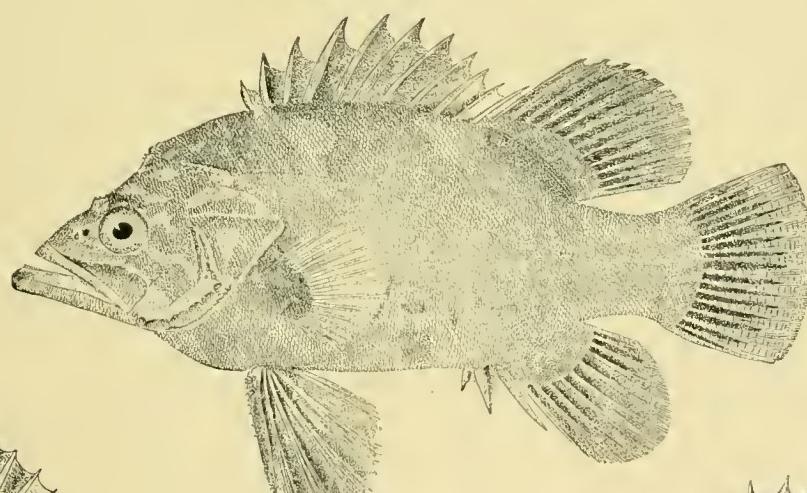
234. *DIRETMUS ARGENTEUS*. (p. 211.)233, 233a, b. *CYTUS HOOLEPIS*. (p. 225.)



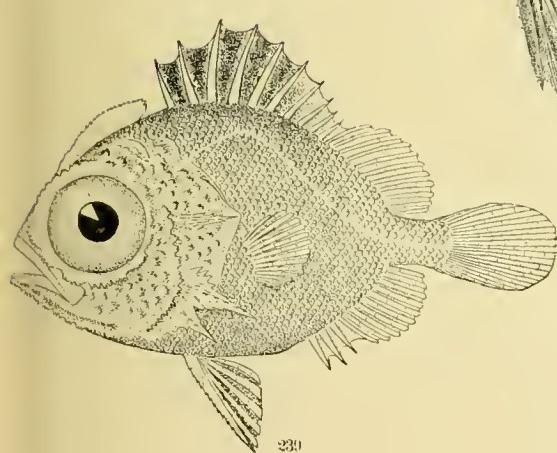
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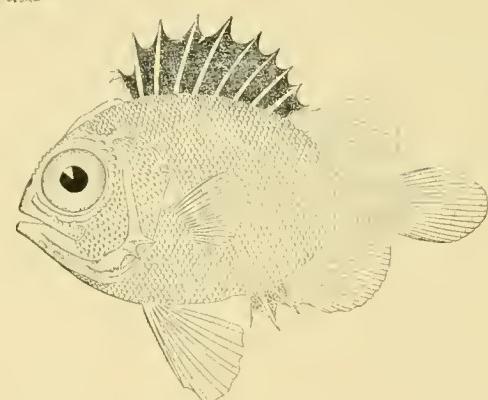
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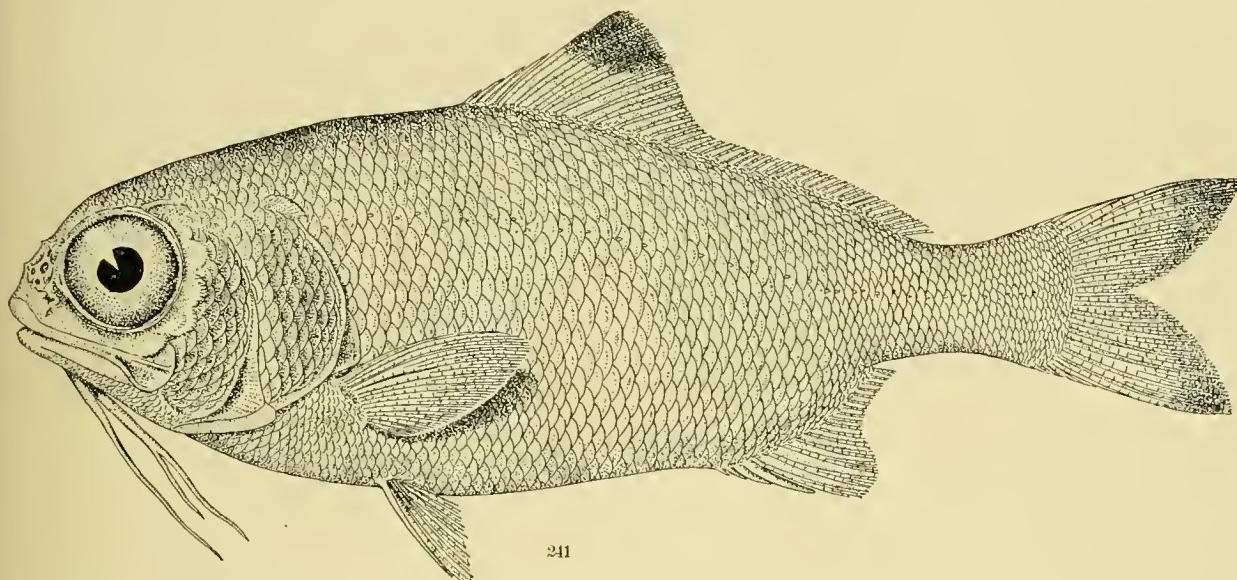
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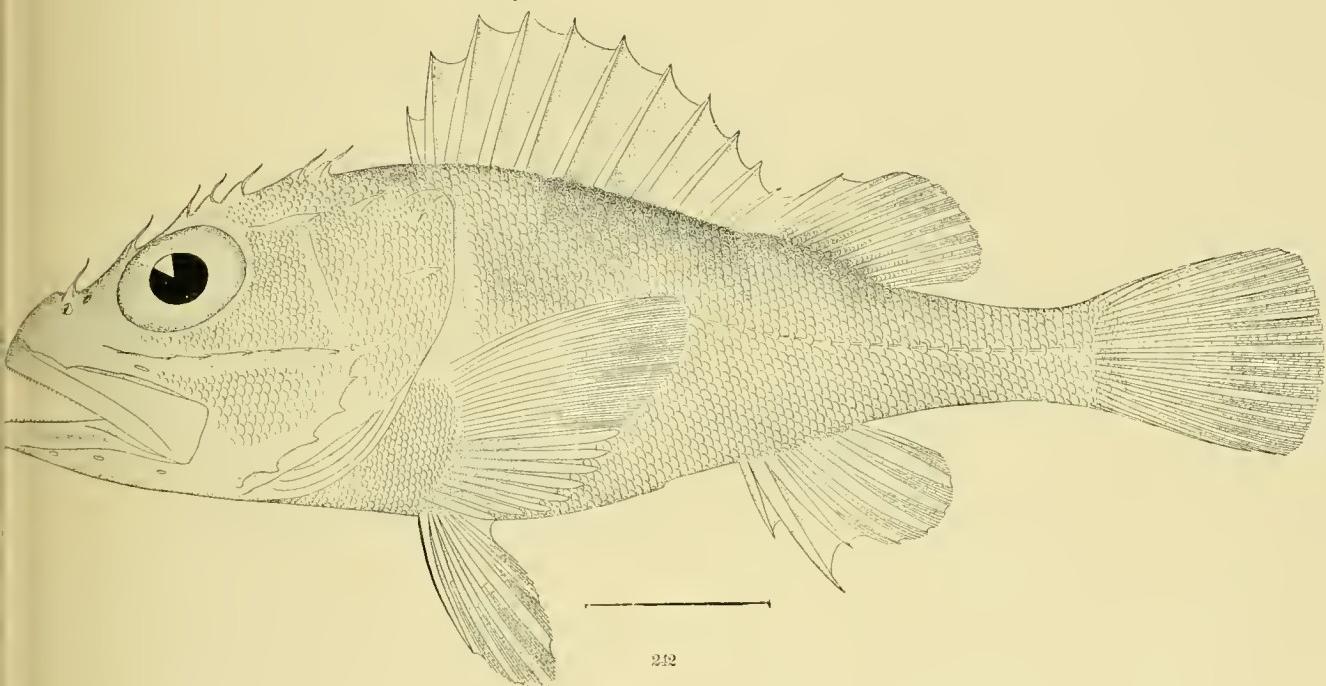
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236. *EPIGONUS OCCIDENTALIS.* (p. 233.)
238. *POLYPRION AMERICANUM.* (p. 238.)

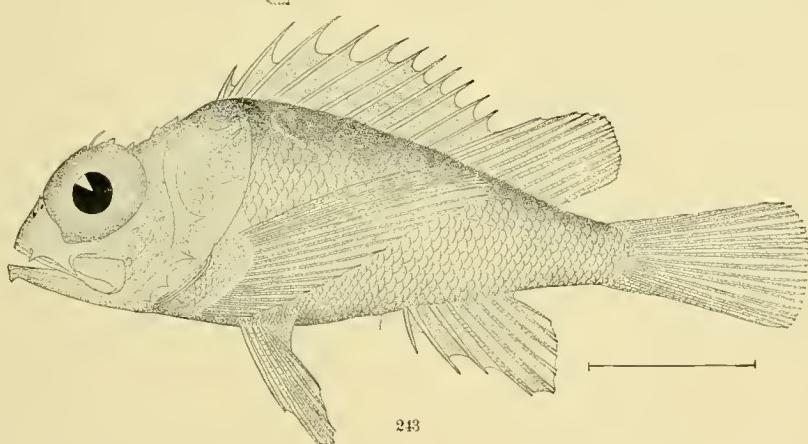
237. *HYPOCLYDONIA BELLA.* (p. 236.)
239, 240. *PSEUDOPRIACANTHUS ALTUS.* (p. 242.)



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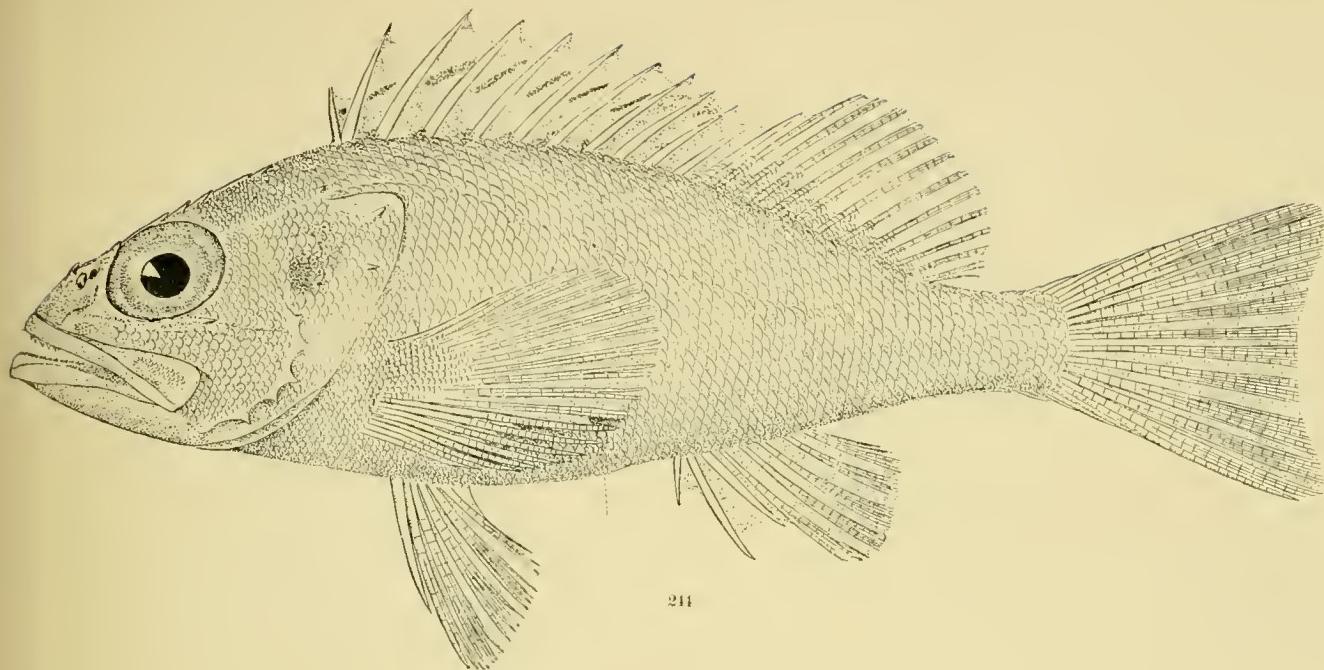


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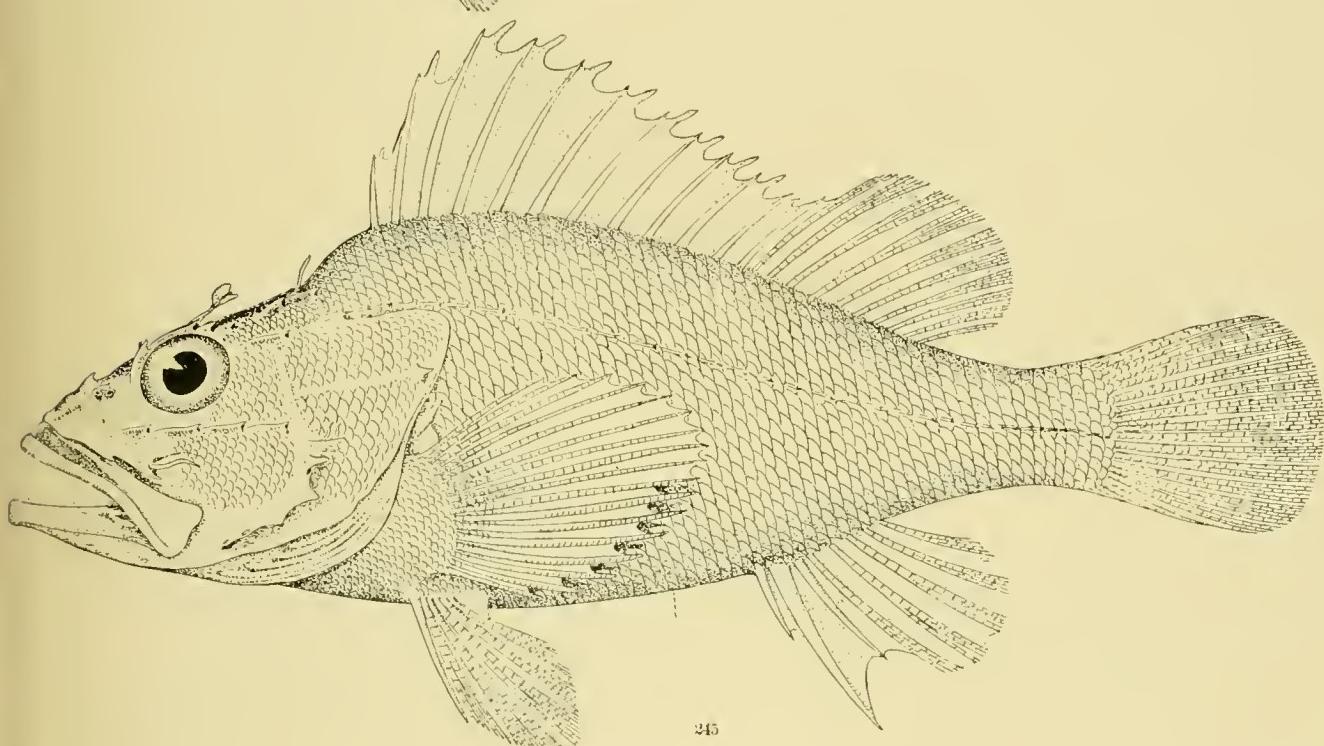
241. POLYMXIA NOBILIS. (p. 243.)

243. SCORPÆNA AGASSIZII. (p. 247.)

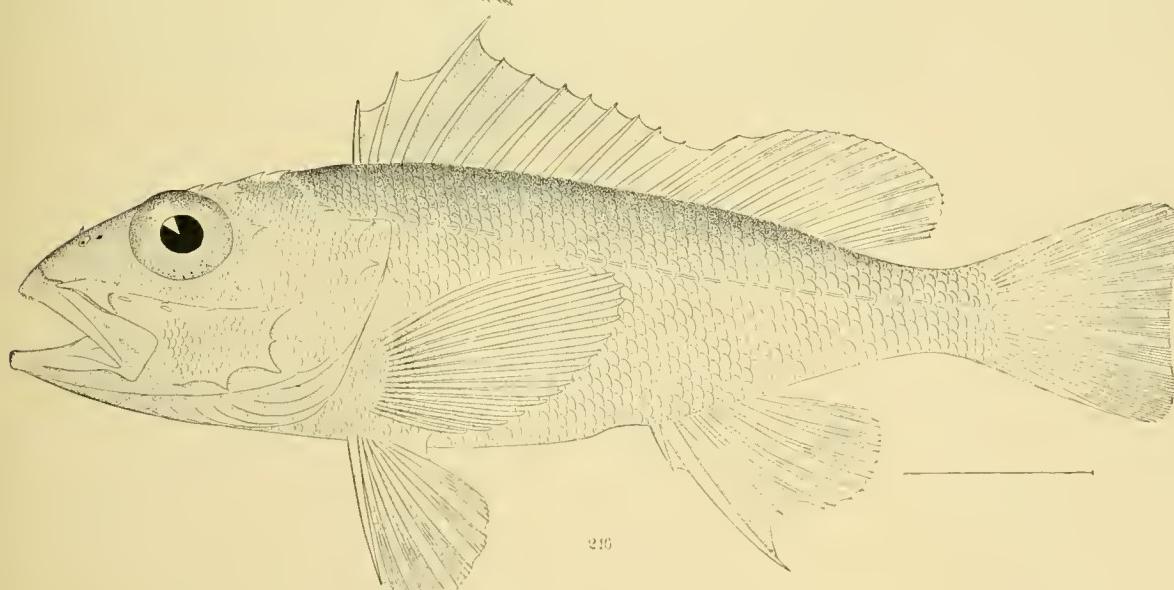
242. SCORPÆNA CRISTULATA. (p. 246.)



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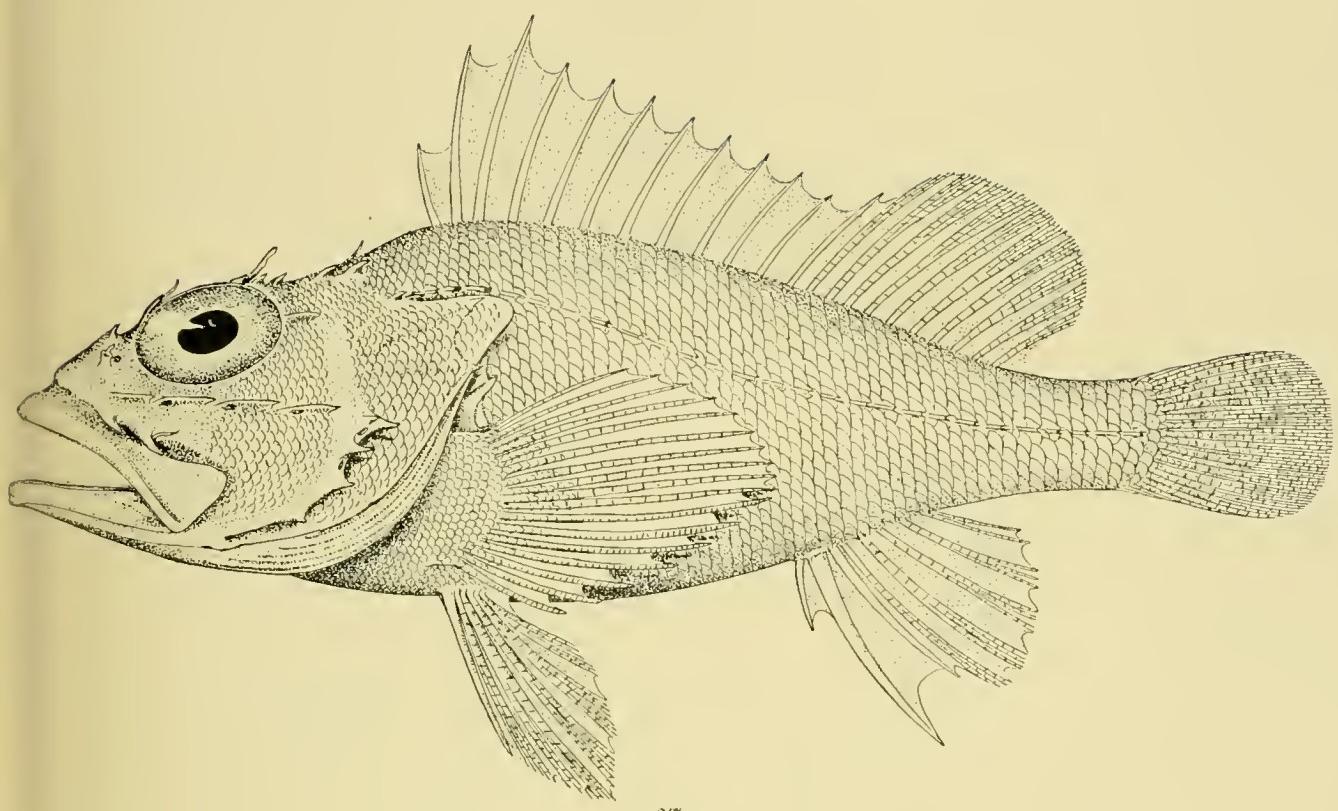
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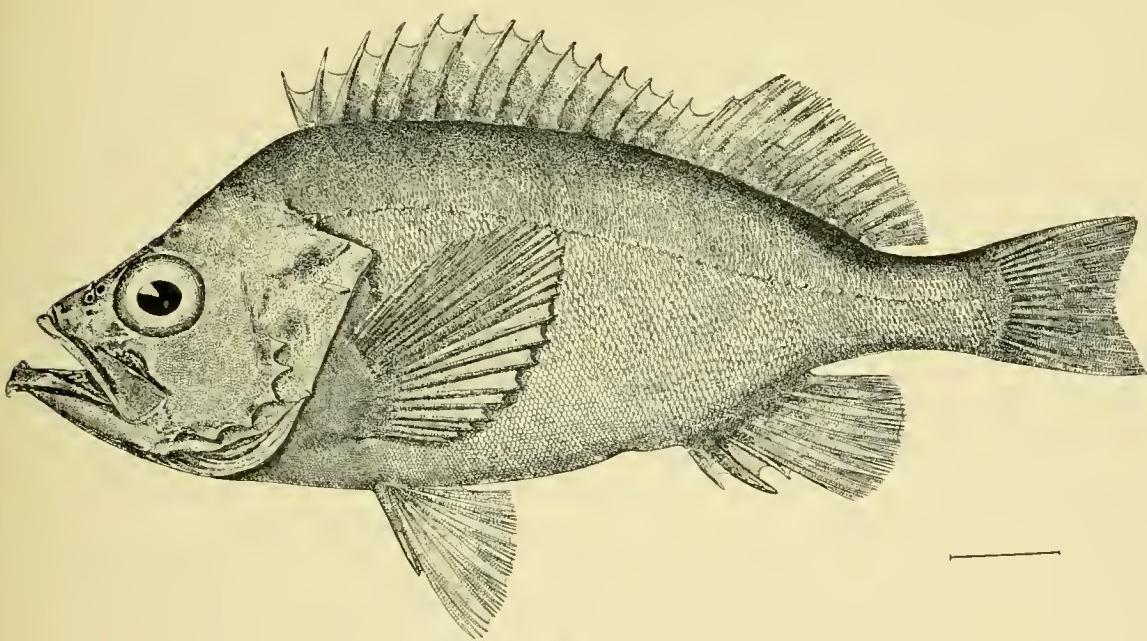
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244. *HELIOLENUS DACTYLOPTERUS*. (p. 250.)246. *PONTINUS LONGISPINIS*.245. *PONTINUS RATHBUNI*. (p. 255.)

(p. 258.)



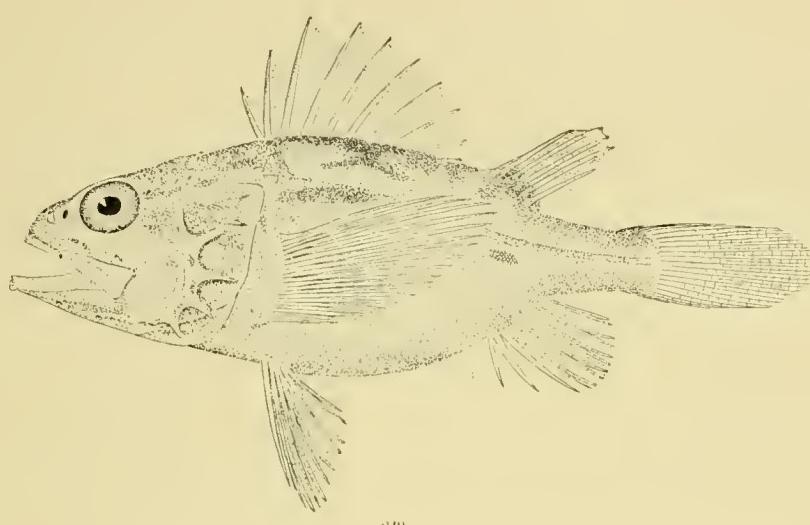
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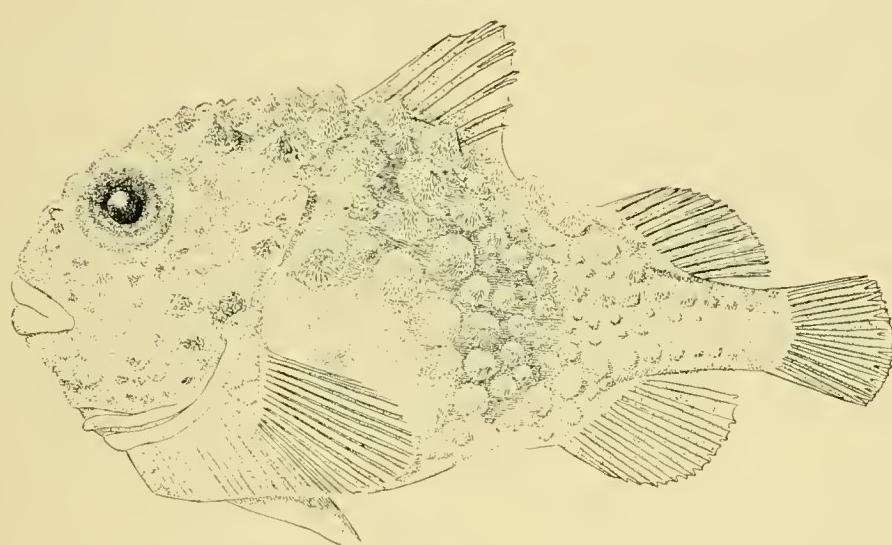
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247. *PONTINUS MACROLEPIS.* (p. 257.)

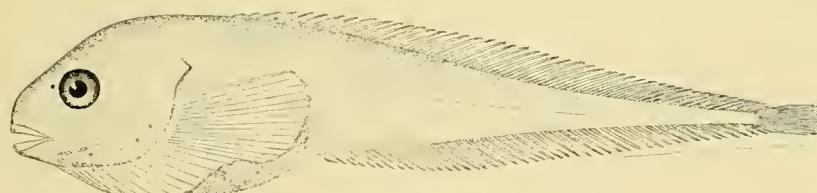
248. *SEBASTES MARINUS.* (p. 260.)



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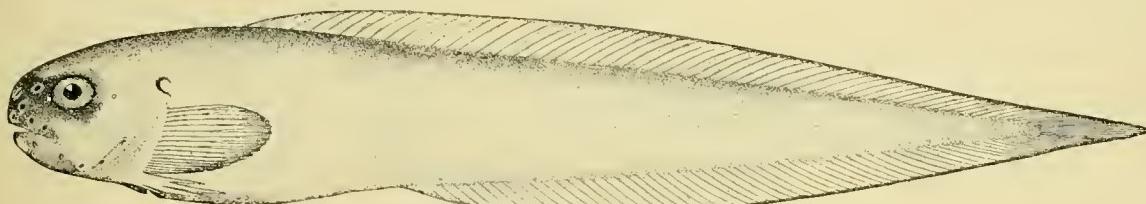
251a



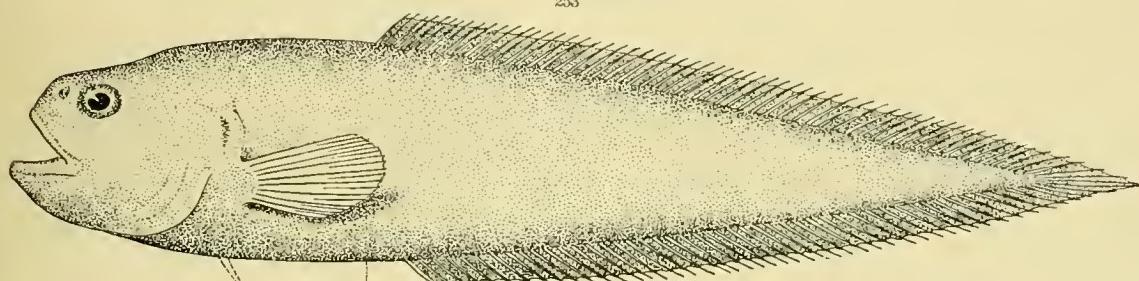
251b

249. *SETARCHEΣ PARMATUS*. (p. 264.)
251, 251a, b. *CAREPROCTUS RANULA*. (p. 275.)

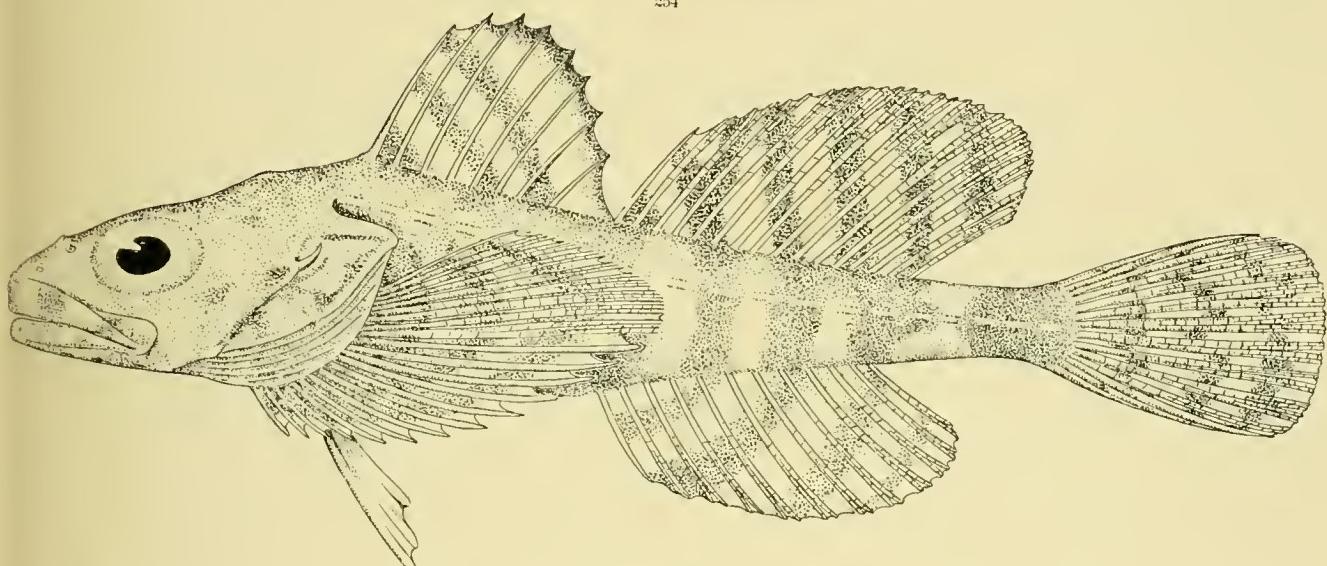
250. *EUMICROTREMUS SPINOSUS*. (p. 272.)
252. *MONOMITRA LIPARINA*. (p. 278.)



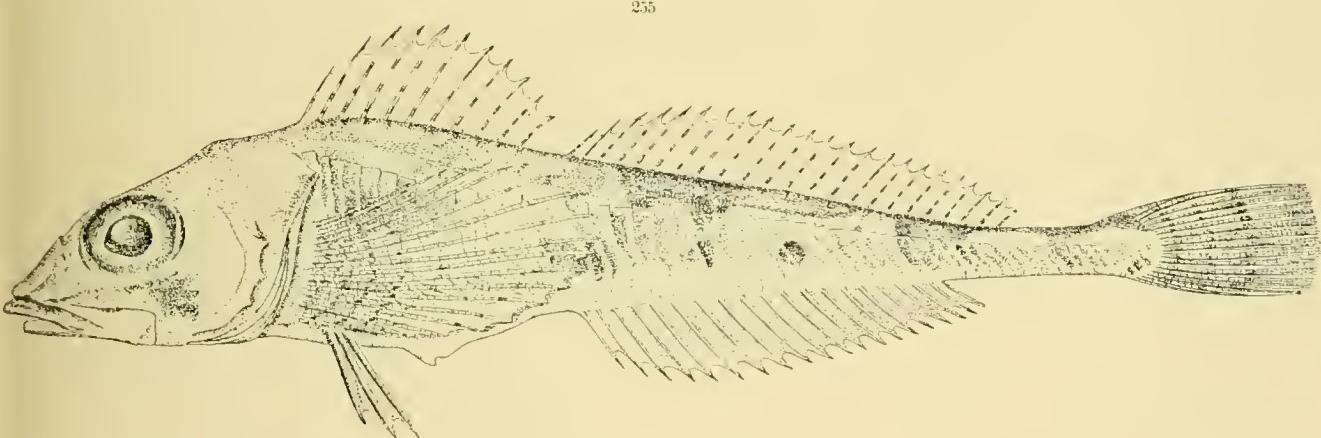
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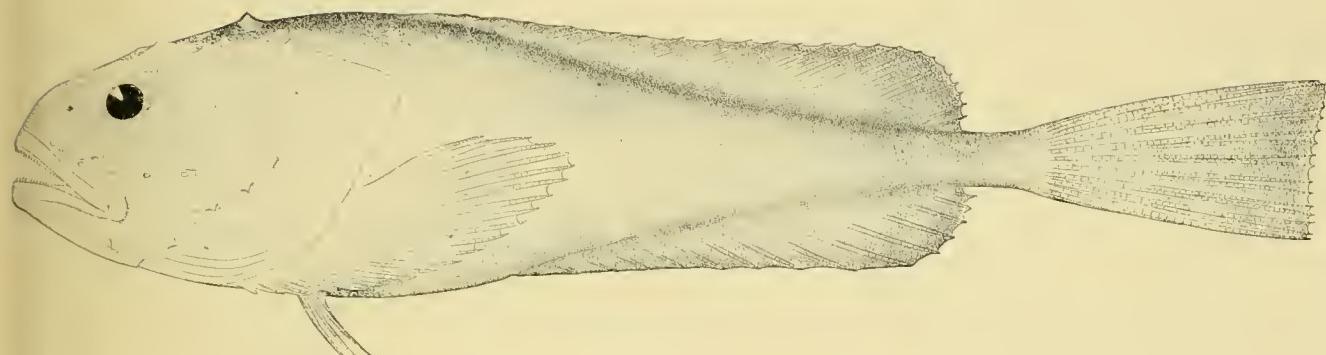


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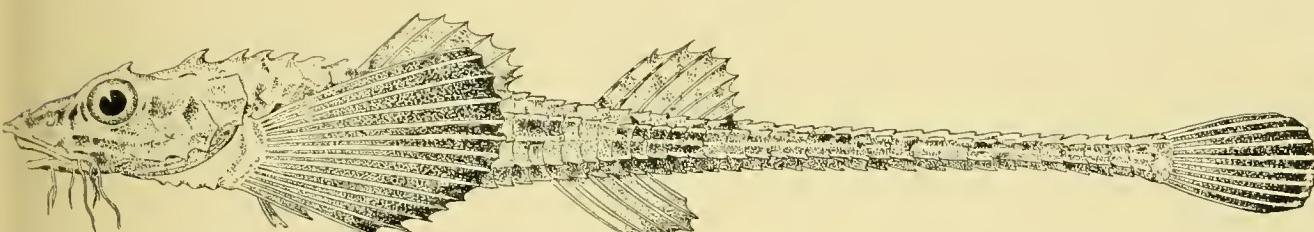
253. *PARALIPARIS COPEI*. (p. 279.)255. *ARTEDIELLUS UNCIATUS*. (p. 267.)254. *GYMNOLYCDES EDWARDSI*. (p. 281.)256. *TRIGLOPS PINGELII*. (p. 269.)



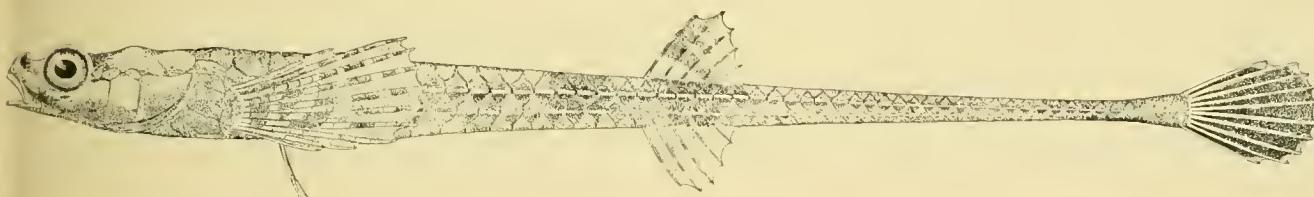
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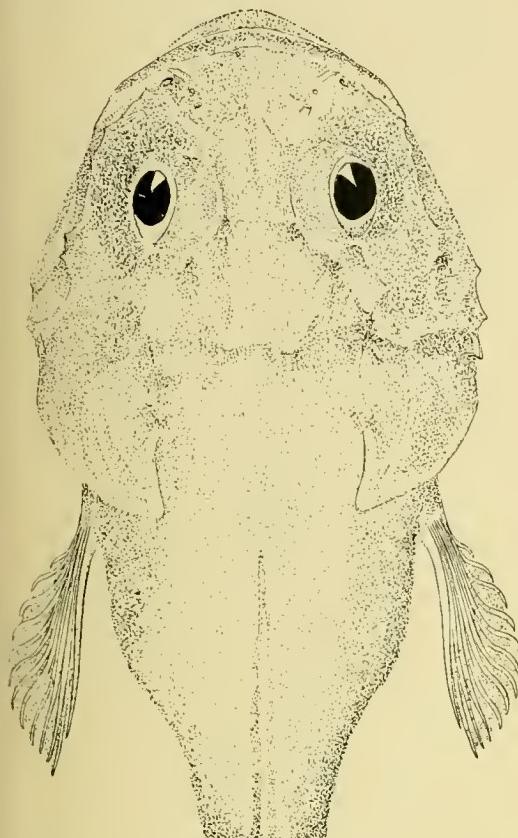
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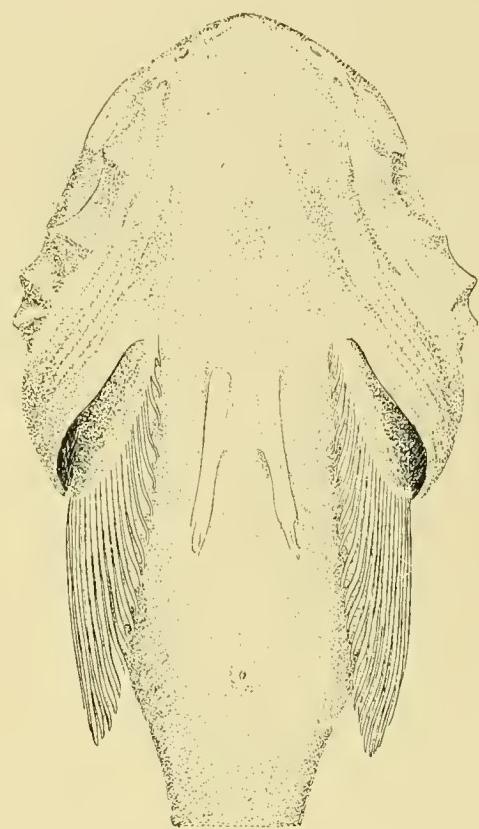
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257. *COTTUNCULUS MICROPS.* (p. 269.)
259. *PODOTHECUS DECAGONUS.* (p. 282.)

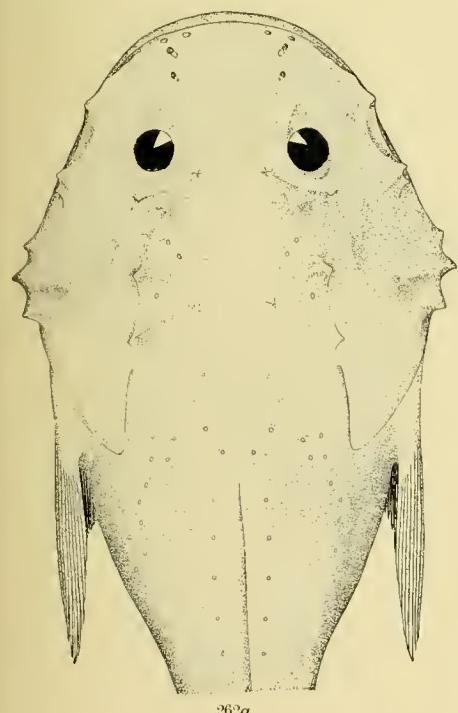
258. *COTTUNCULUS THOMSONI.* (p. 270.)
260. *ASPIDOPHOROIDES MONOPTERYGIUS* (p. 283.)



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261b

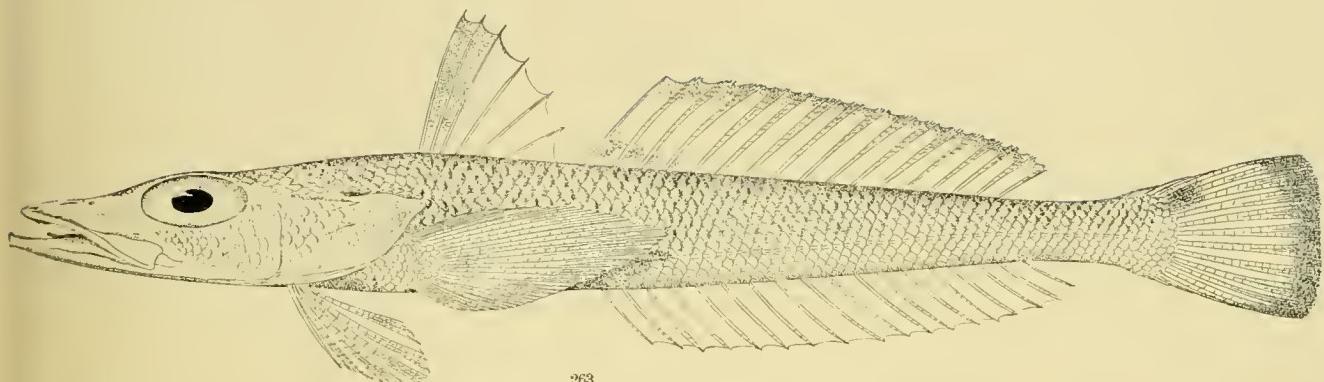


262a



262b

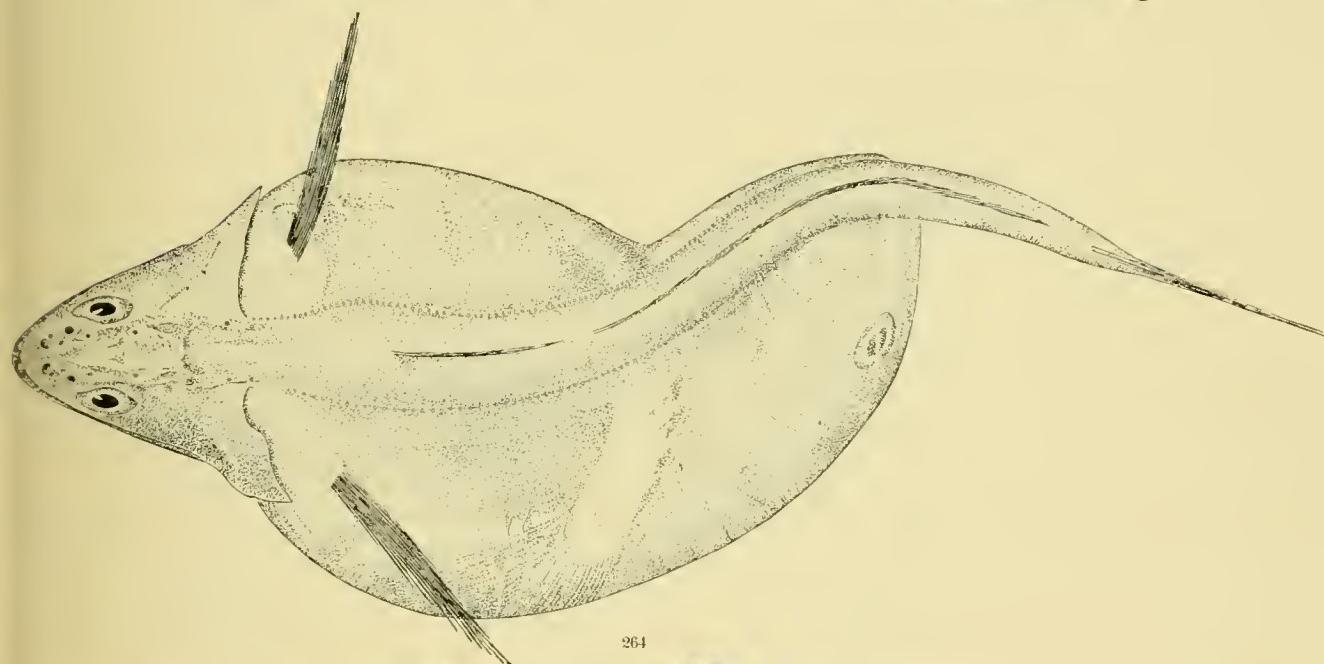
261a, b. *COTTUNCULUS MICROPS.* (p. 269.)262a, b. *COTTUNCULUS THOMSONII.* (p. 270.)



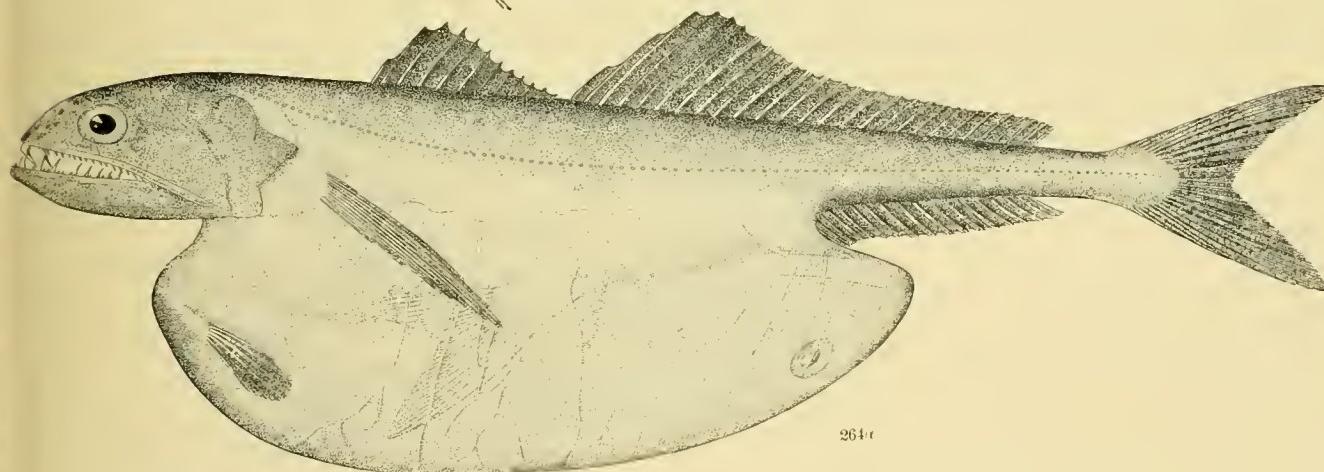
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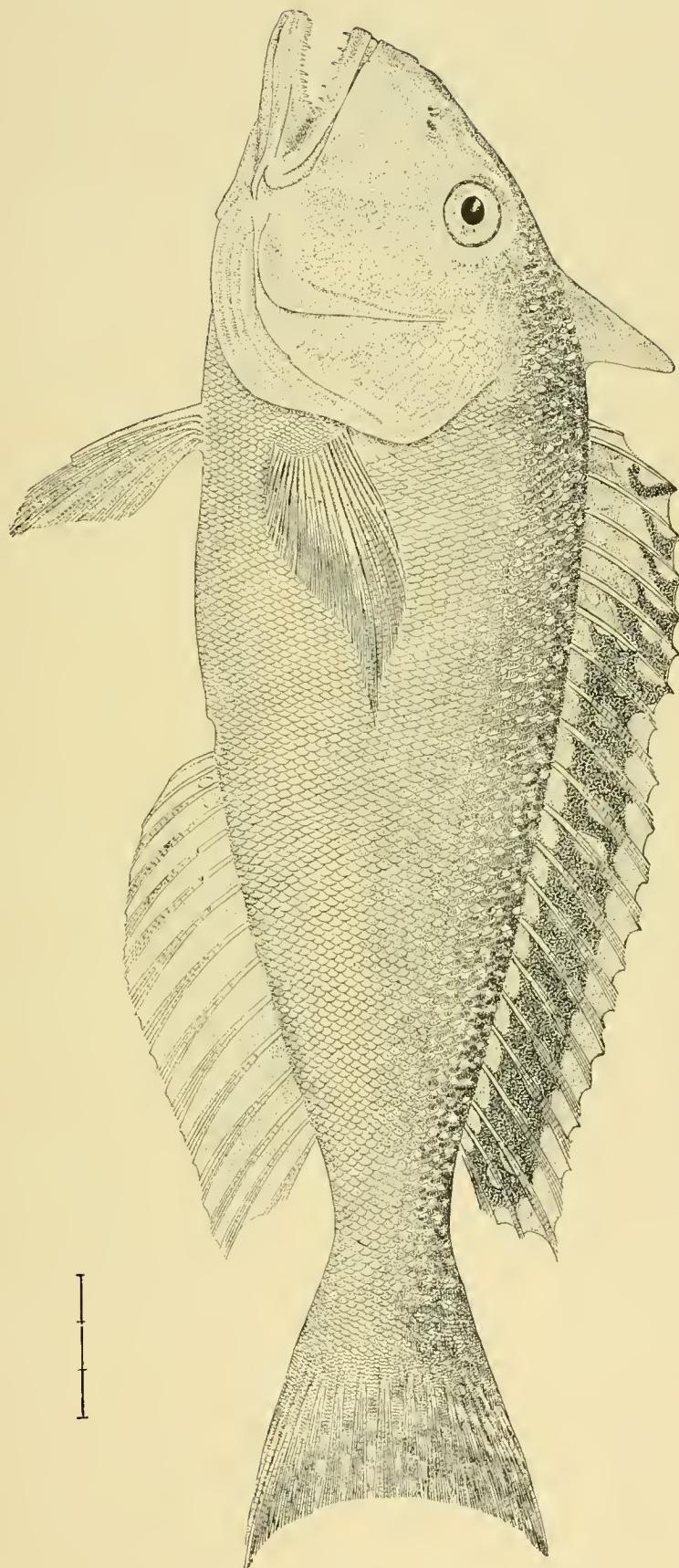


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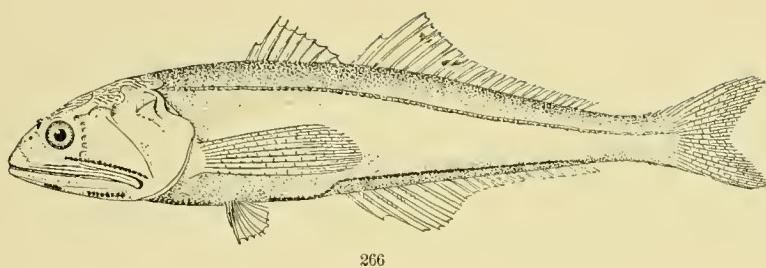


264, 264a, CHIASMODON NIGER. (p. 292.)

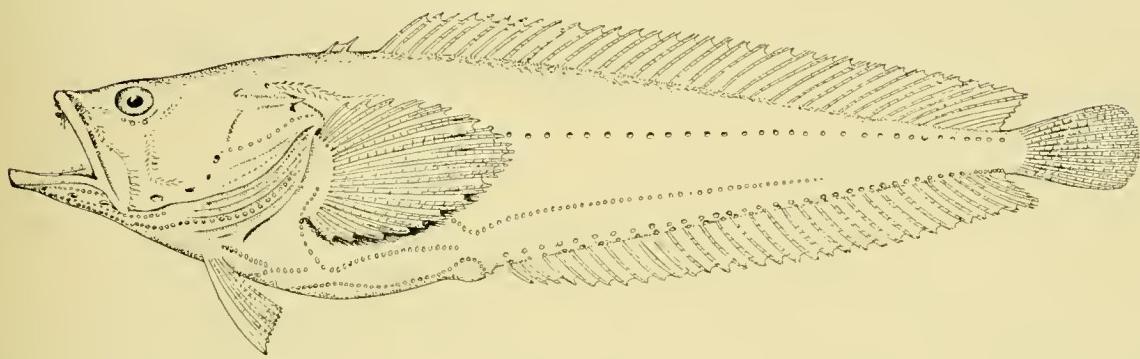
263, 263a, b. HYPSCOMETES GOBIOIDES. (p. 290.)



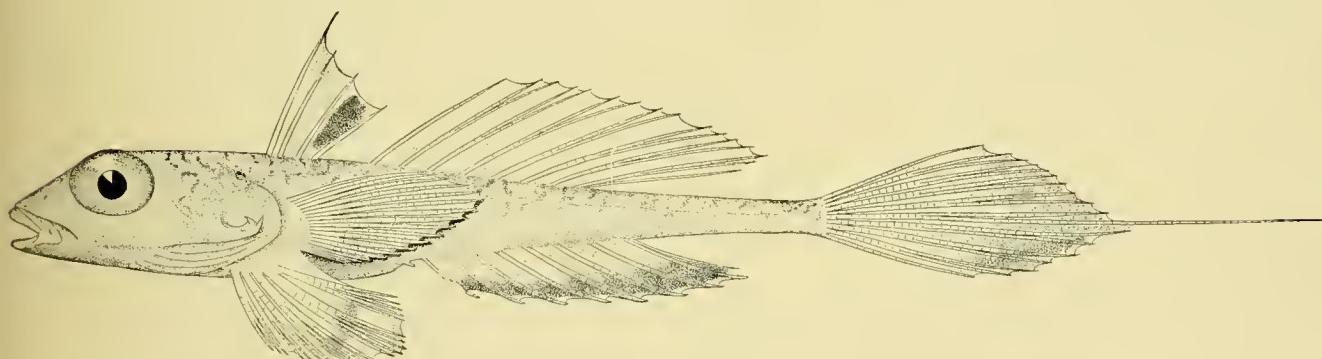
265. *Lopholatilus chameleonticeps*. (p. 284.)



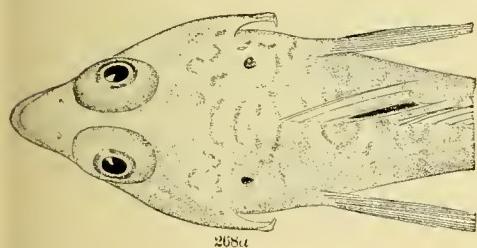
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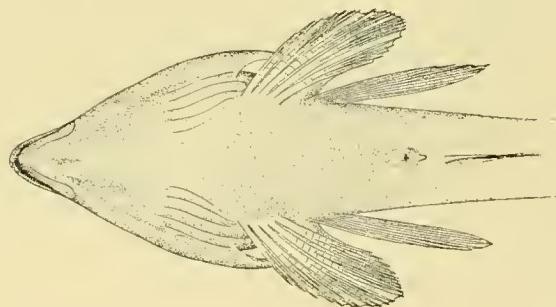
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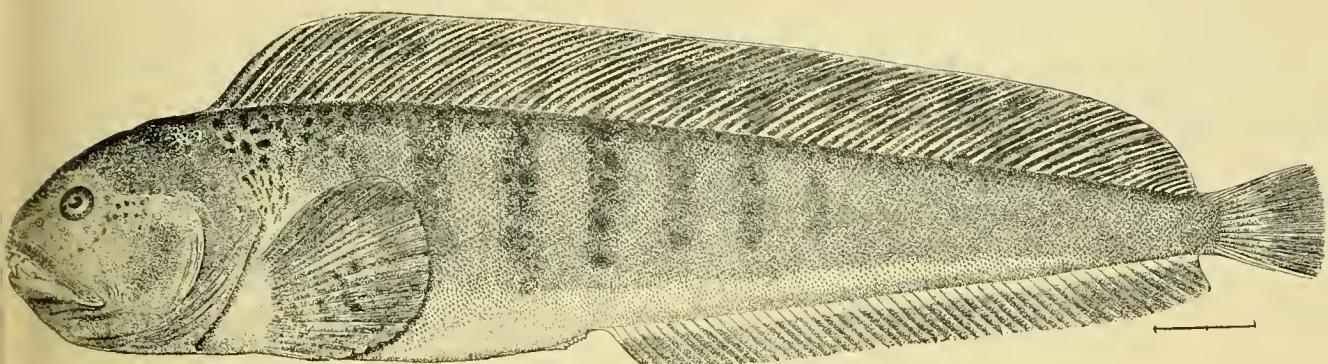


268a

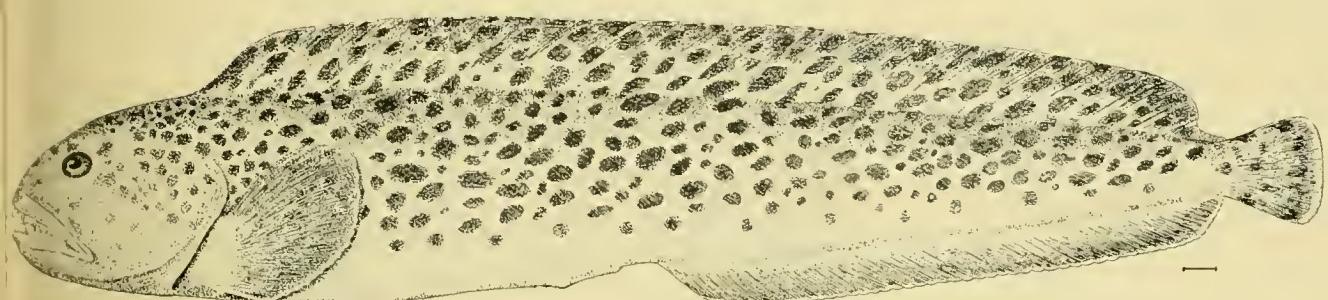


268b

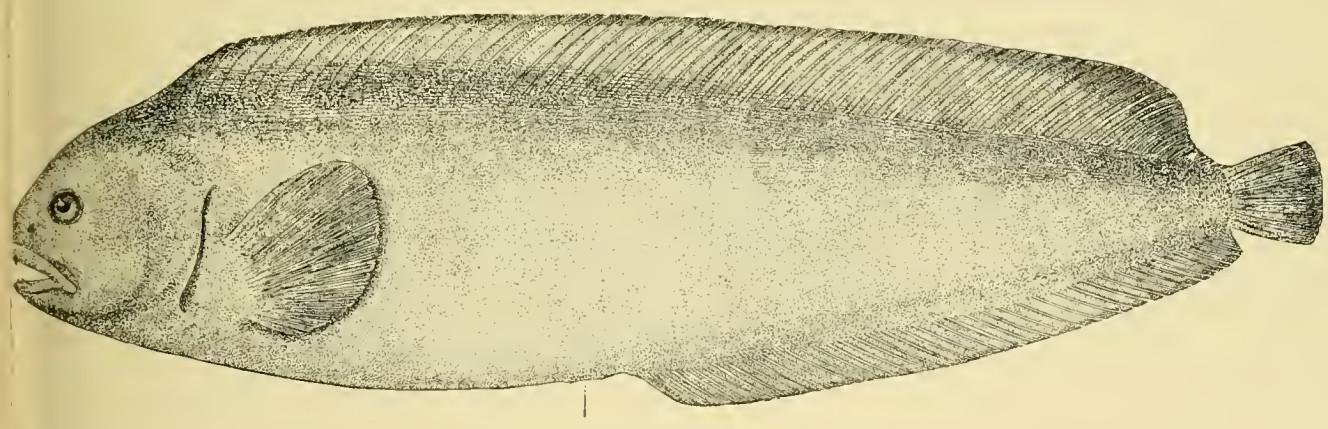
266. *PSEUDOSCOPELUS SCRIPTUS.* (p. 292.)268, 268a, b. *CALLIONYMUS HIMANTOPHORUS.* (p. 296.)267. *PORICHTHYS POROSISSIMUS.* (p. 294.)



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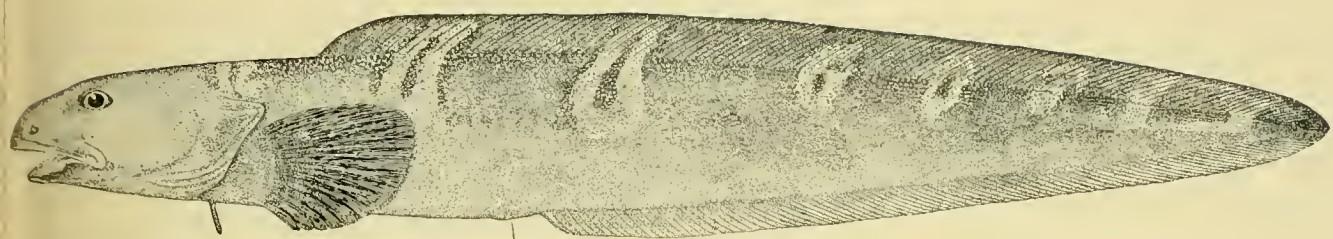


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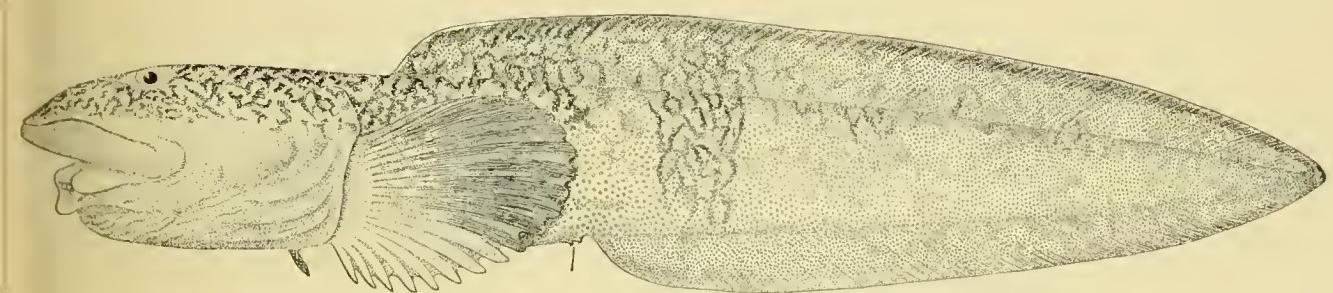
269. ANARRHICHAS LUPUS. (p. 299.)

270. ANARRHICHAS MINOR. (p. 301.)

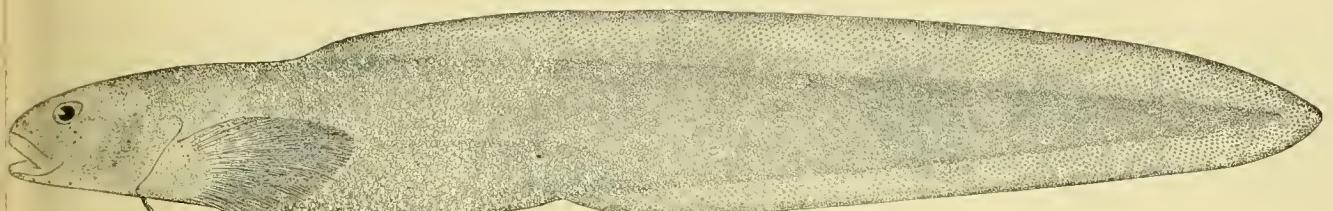
271. ANARRHICHAS LATIFRONS. (p. 301.)



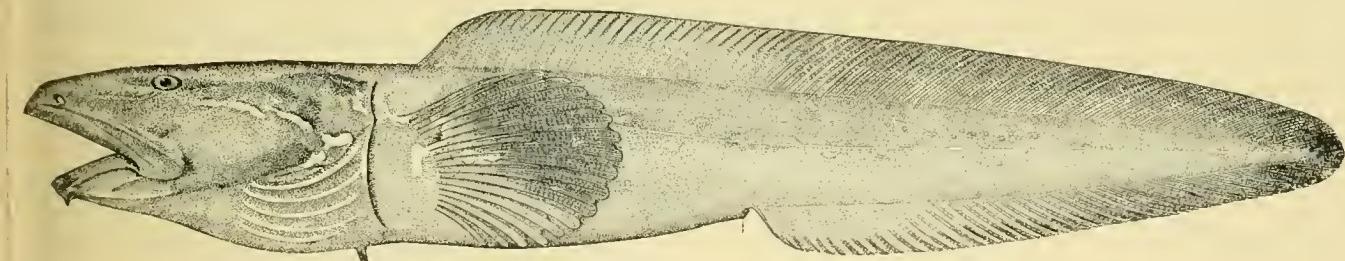
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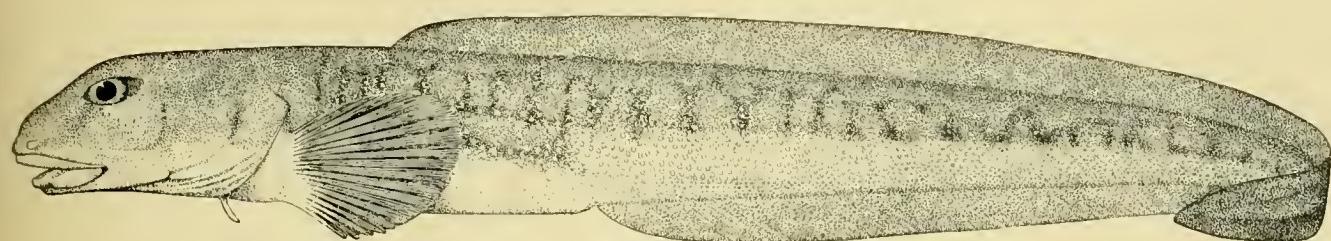
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272. LYCODES ESMARKII. (p. 303.)
274. LYCODES FRIGIDUS. (p. 305.)

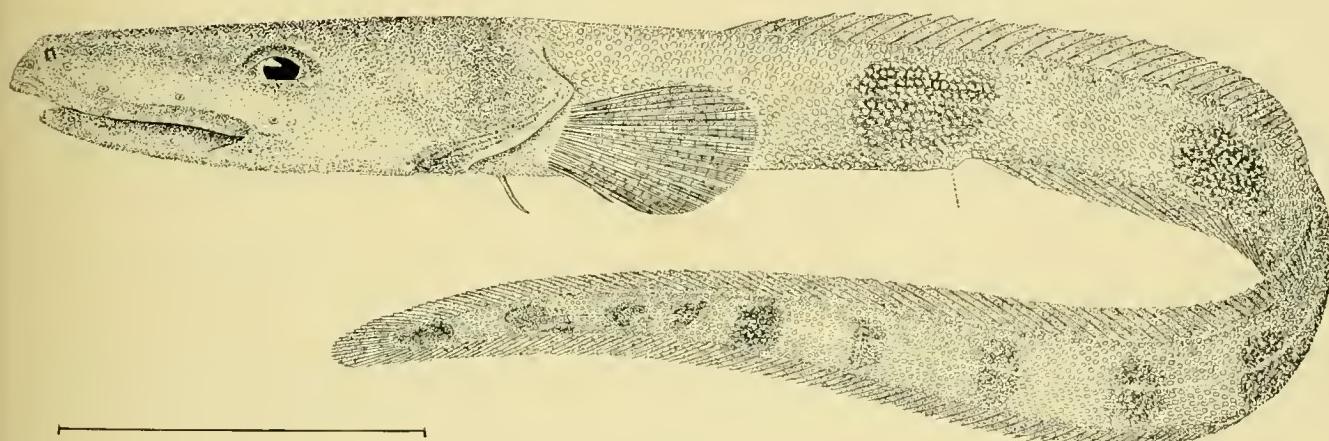
273. LYCODES RETICULATUS. (p. 305.)
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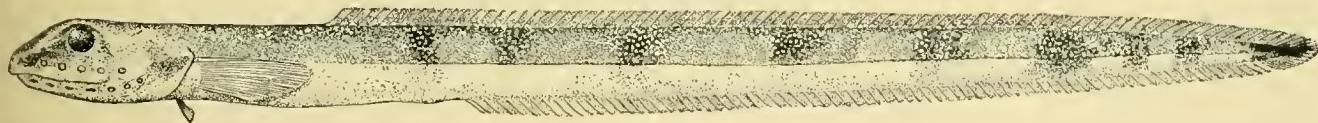
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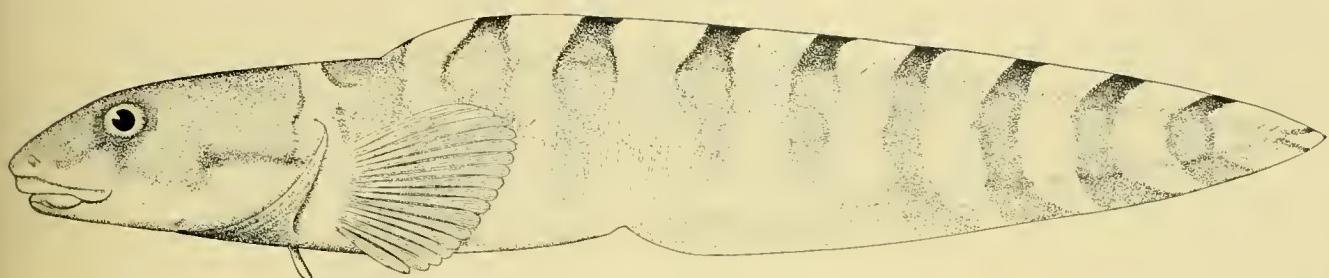
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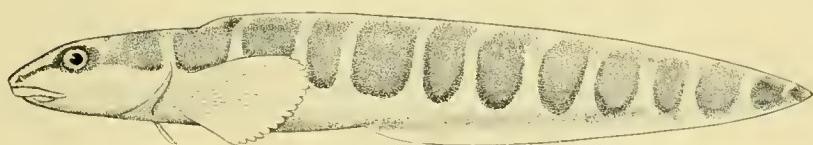
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276, 276a. LYCODES ZOARCHUS. (p. 308.)

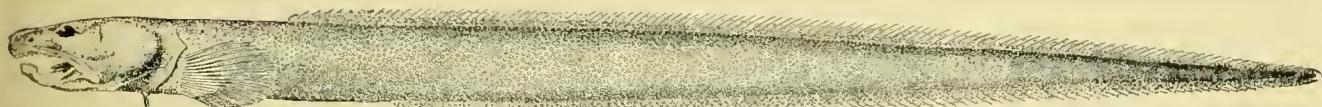
277, 277a. LYCENCHELYS VERRILLI. (p. 309.)



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278a



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279a



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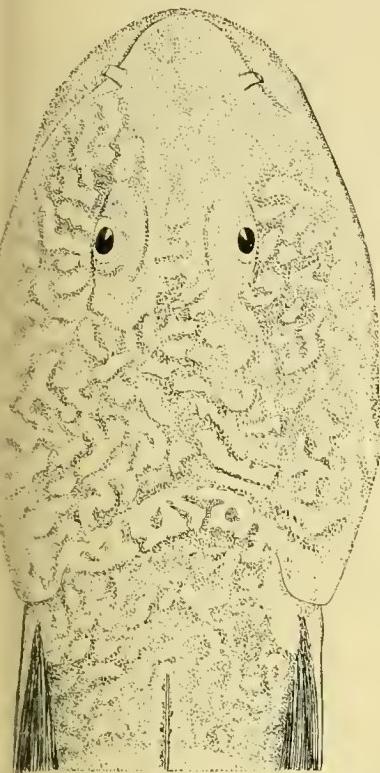
278, 278a. *LYCODES PERSPICILLUM*. (p. 307.)

(p. 307.)

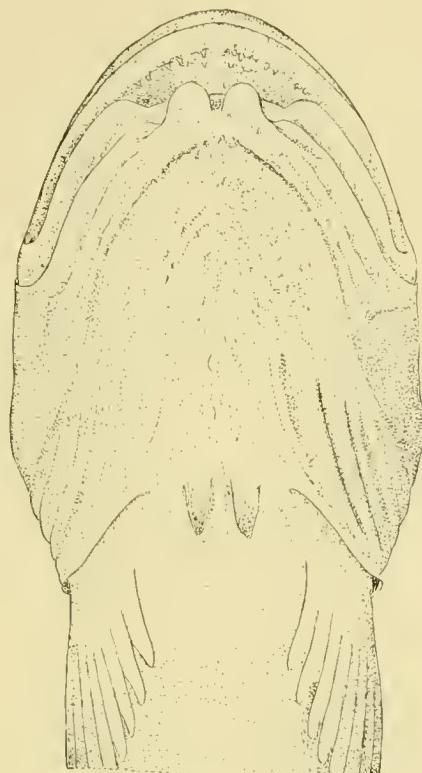
279, 279a. *LYCENCHELYS PAXILLUS*. (p. 311.)

(p. 311.)

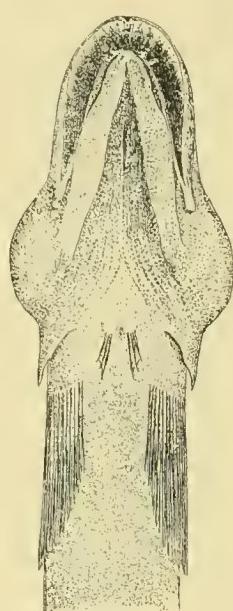
280. *LYCODONUS MIRABILIS*. (p. 312.)



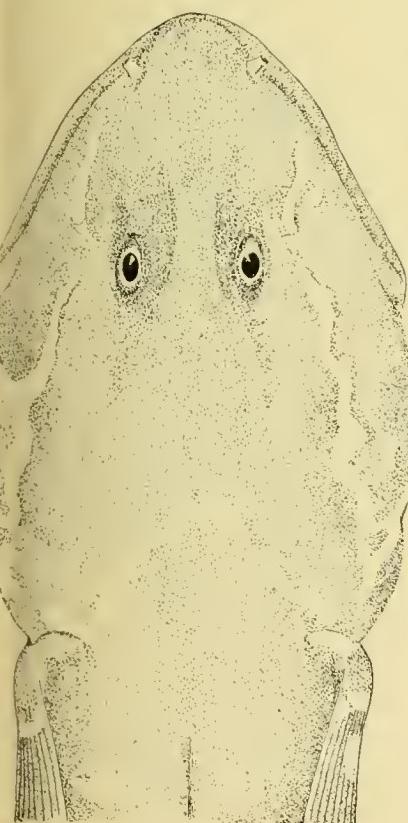
281a



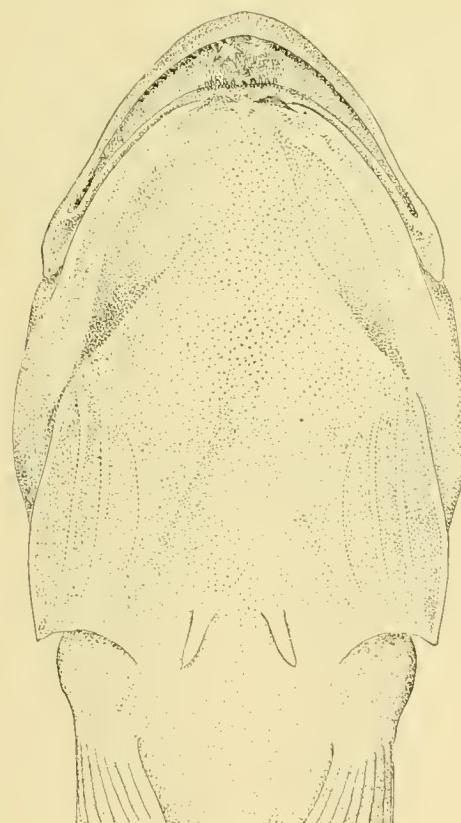
281b



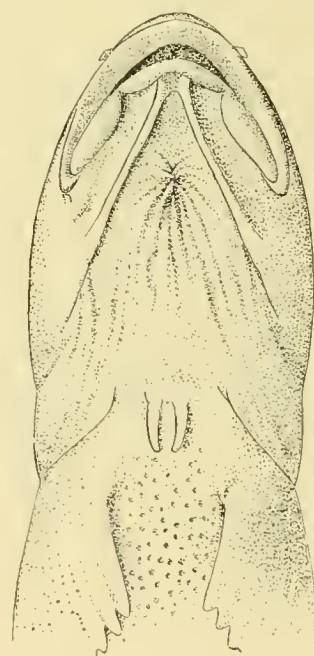
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283a



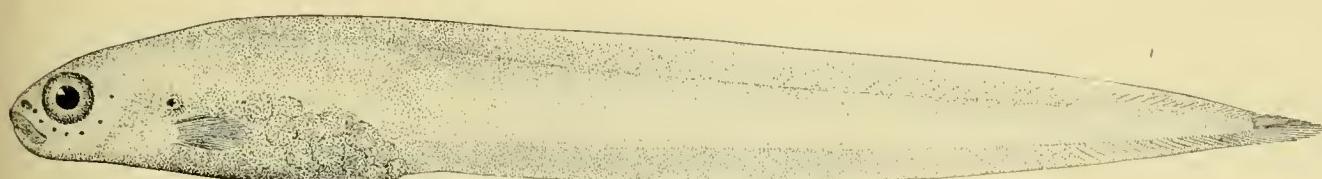
283b



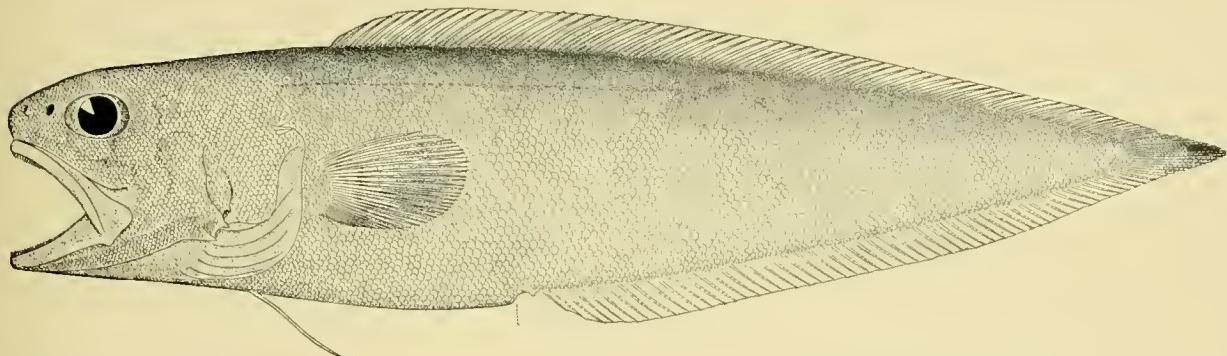
283c

281a, b. *LYCODES RETICULATUS.* (p. 305.)
283a, b. *LYCODES MUCOSUS.* (p. 306.)

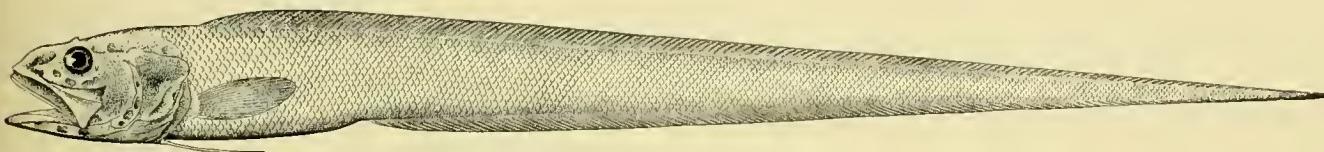
282. *LYCENHIELYS PAXILLUS.* (p. 311.)
283c. *LYCODES ZOARCHUS.* (p. 308.)



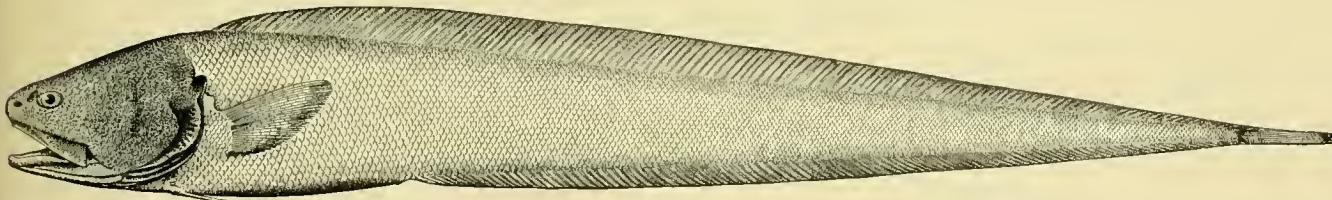
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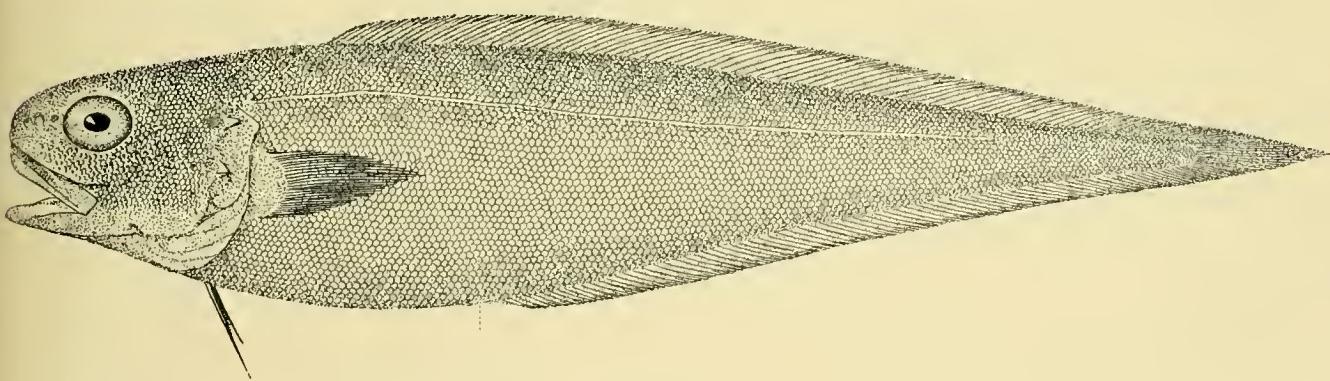
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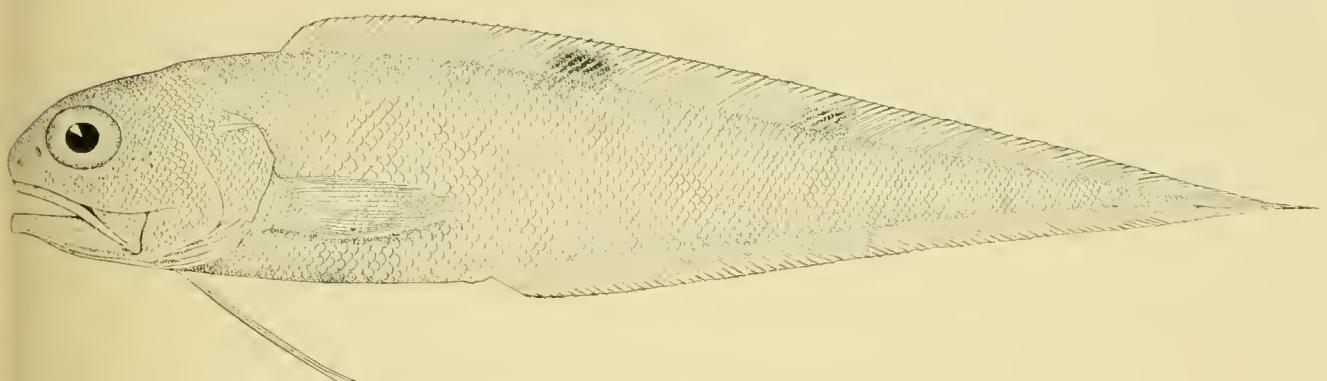


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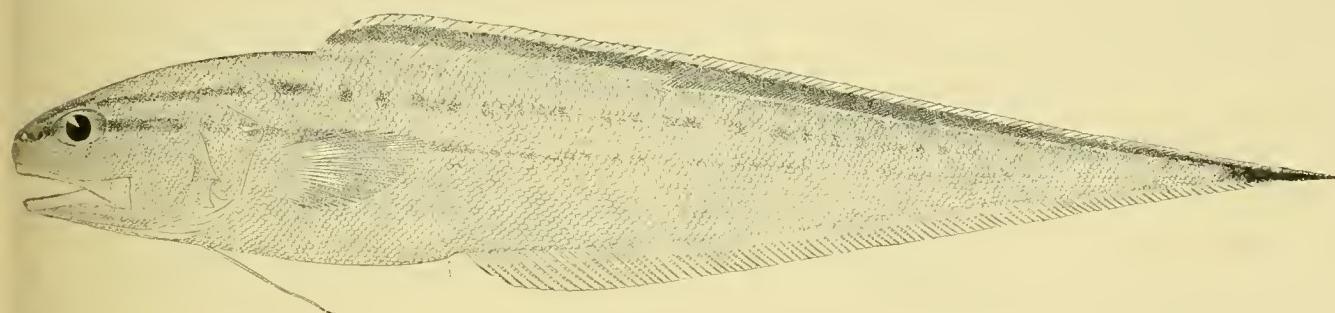
284. *MELANOSTIGMA GELATINOSUM*. (p. 314.)
286. *BASSOZETUS CATENA*. (p. 323.)

285. *DICROMITA AGASSIZII*. (p. 319.)
287. *BASSOZETUS NORMALIS*. (p. 322.)

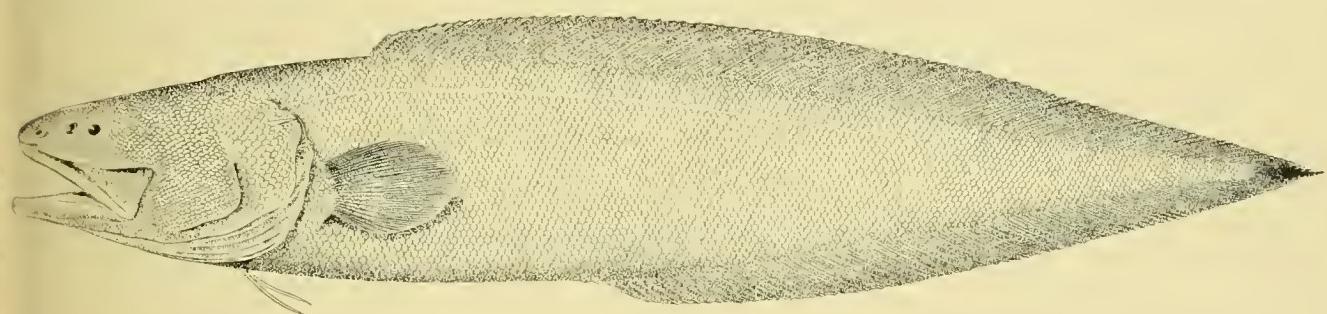
288. *BENTHOCOMETES ROBUSTUS*. (p. 327.)



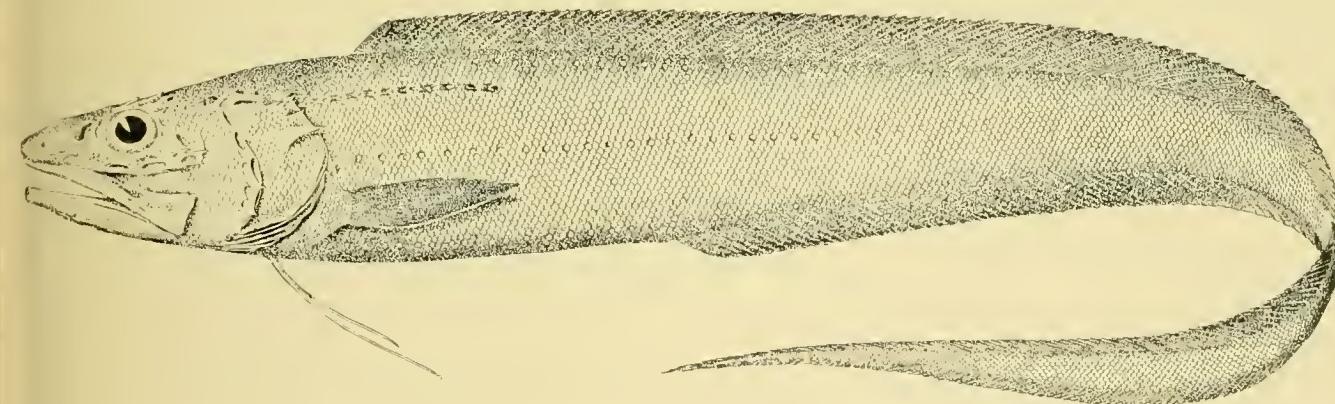
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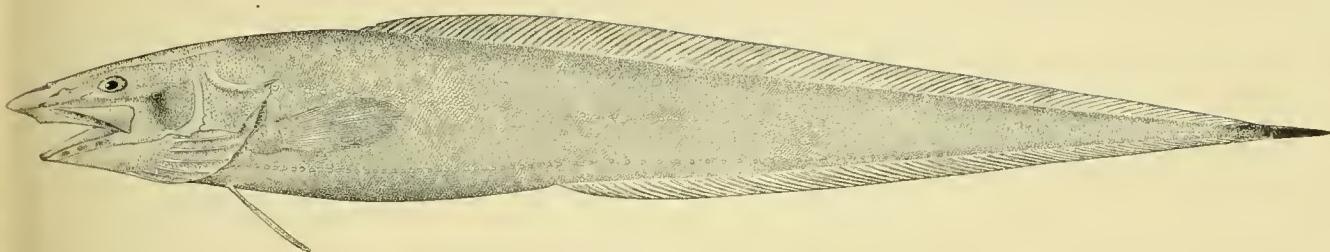
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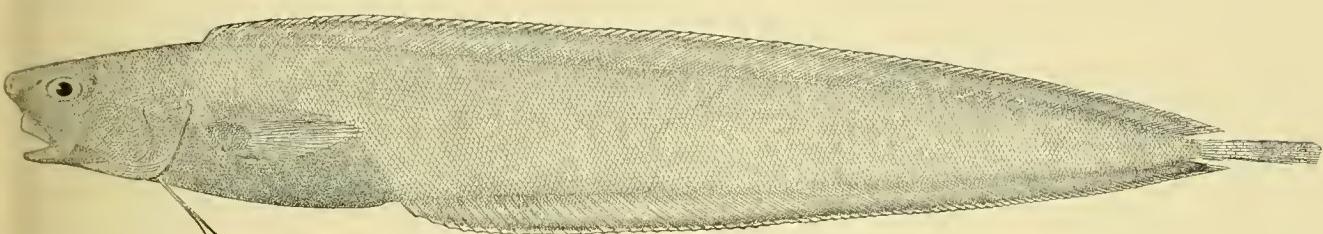
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289. *NEOBYTHITES* GILLIE. (p. 325.)
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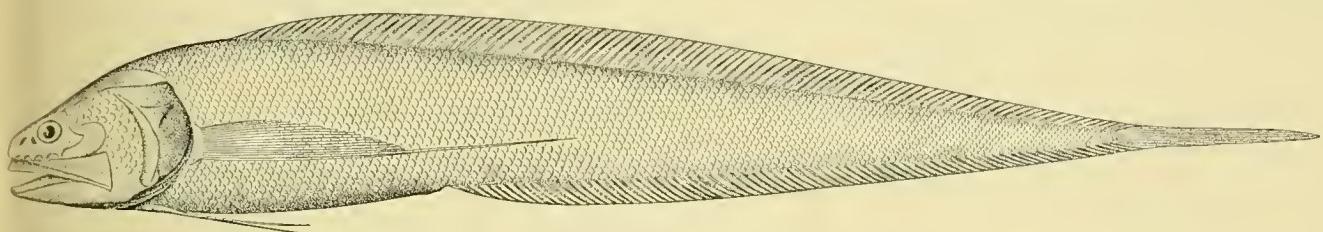
290. *NEOBYTHITES MARGINATUS*. (p. 326.)
292. *POROGADUS MILES*. (p. 334.)



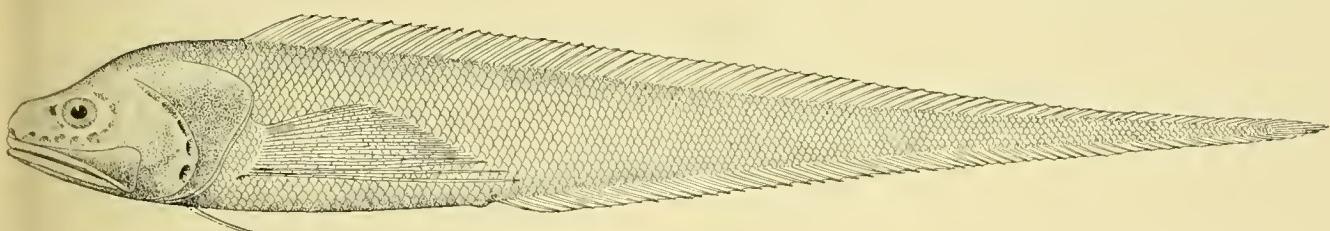
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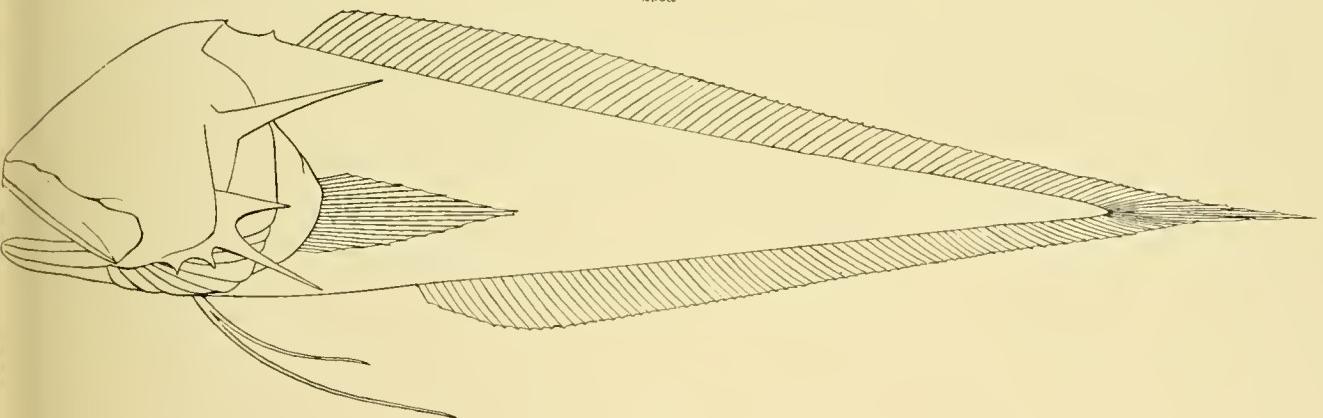
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296a

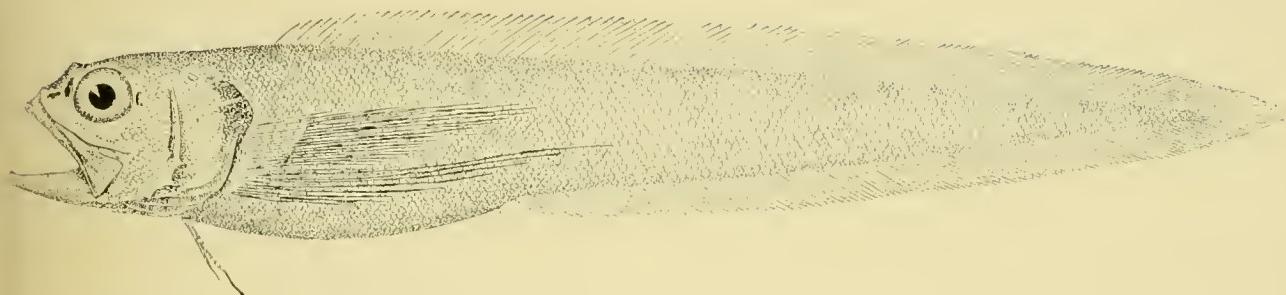


296b

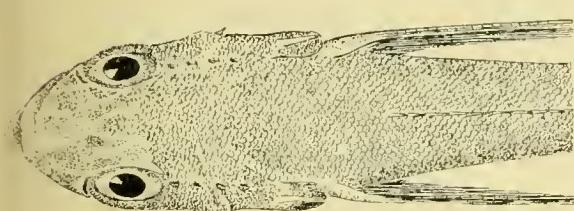
293. *PENOPUS MACDONALDI*. (p. 336.)
295. *NEMATONUS PECTORALIS*. (p. 333.)

294. *BARATHRODEMUS MANATINUS*. (p. 332.)
296a. *MIXONUS LATICEPS*. (p. 339.)

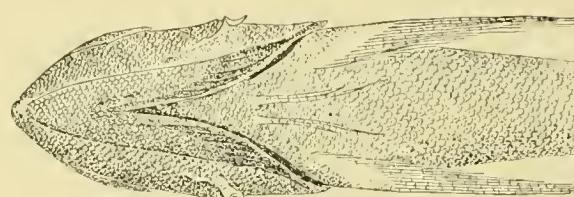
296b. *TAUREDOPHIDIUM HEXTIL*. (p. 336.)



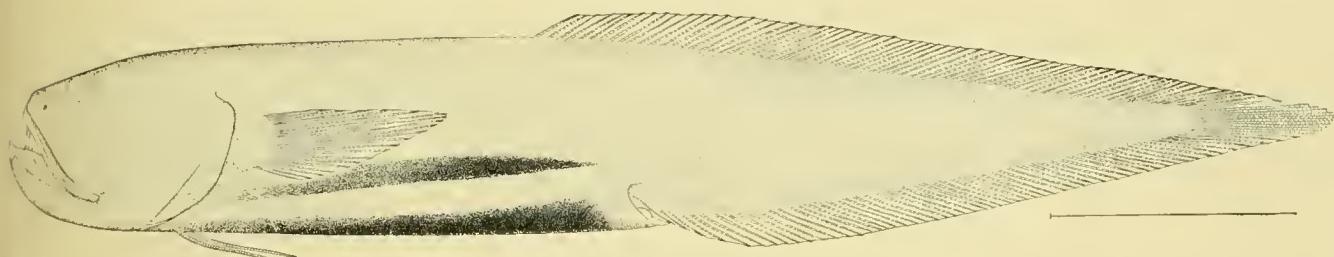
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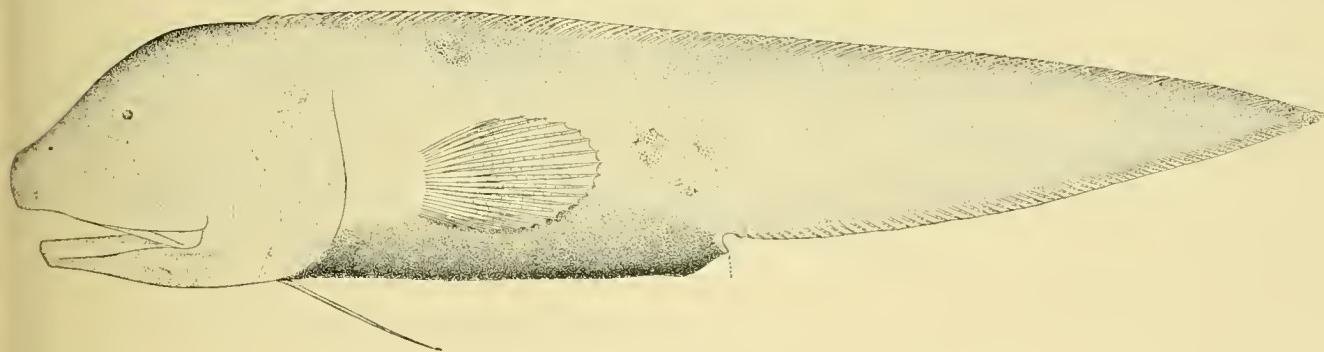
297a



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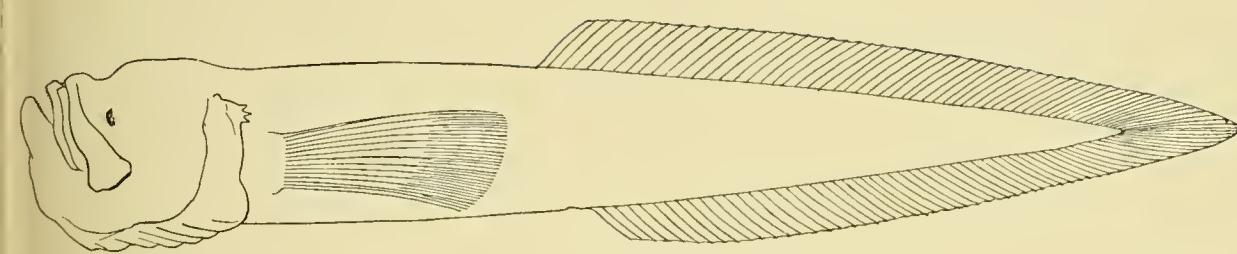


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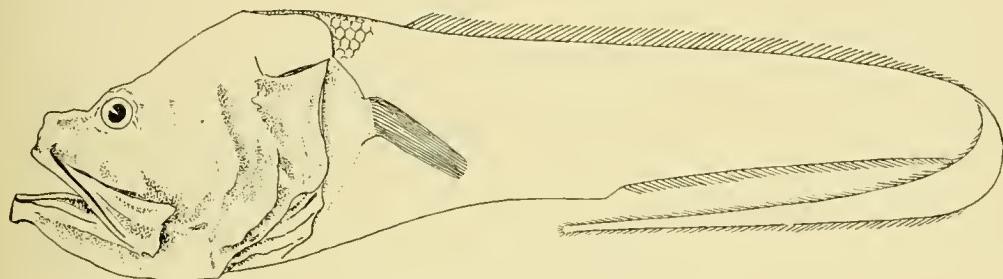


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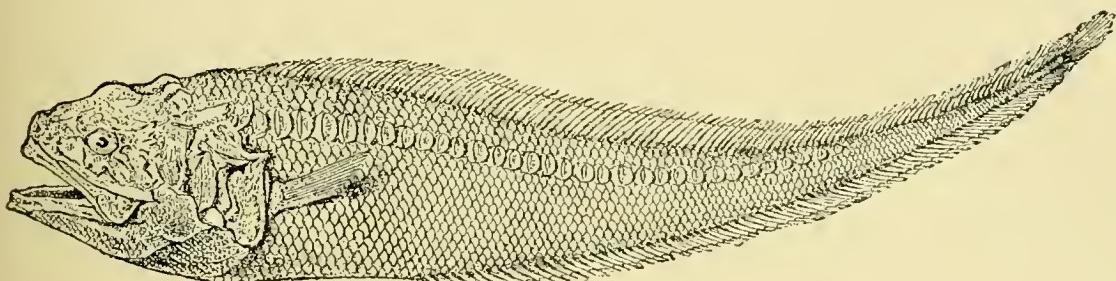
297, 297a, b. *DICROLENE INTRONIGRA*. (p. 338.)299. *APHYONUS MOLLIS*. (p. 342.)298. *BARATHRONUS BICOLOR*. (p. 341.)



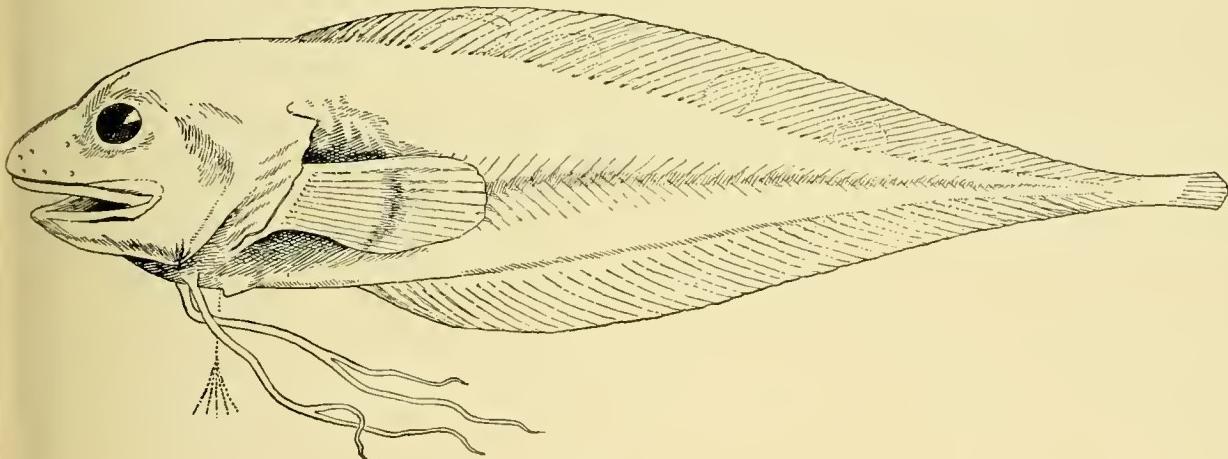
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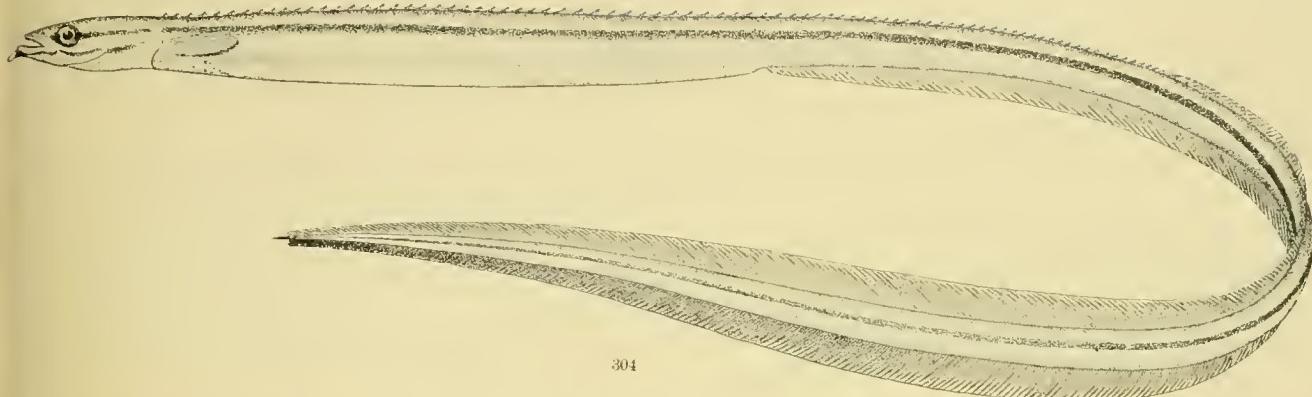
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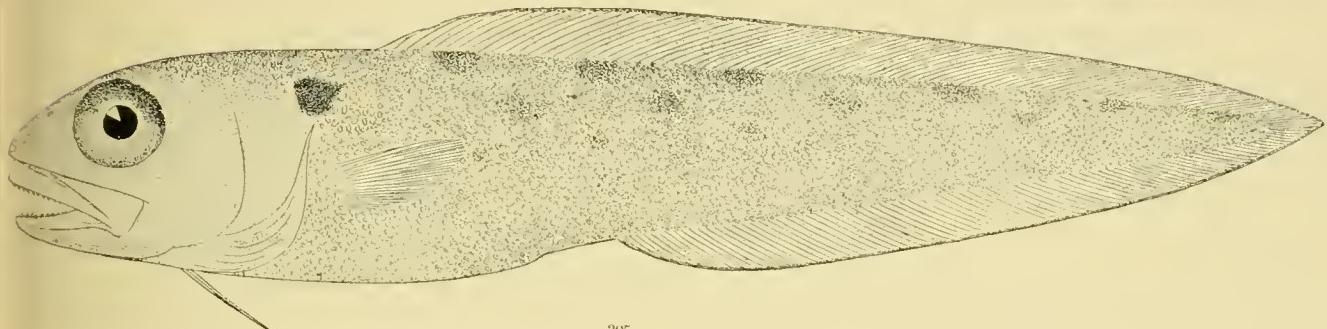
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300. *ALEXETERION PARFAITI*. (p. 343.)
302. *LAMPROGRAMMUS NIGER*. (p. 341.)

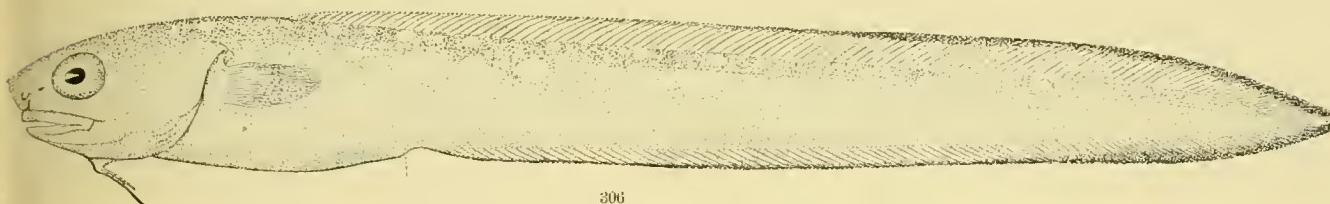
301. *HEPHTHOCARA SIMUM*. (p. 344.)
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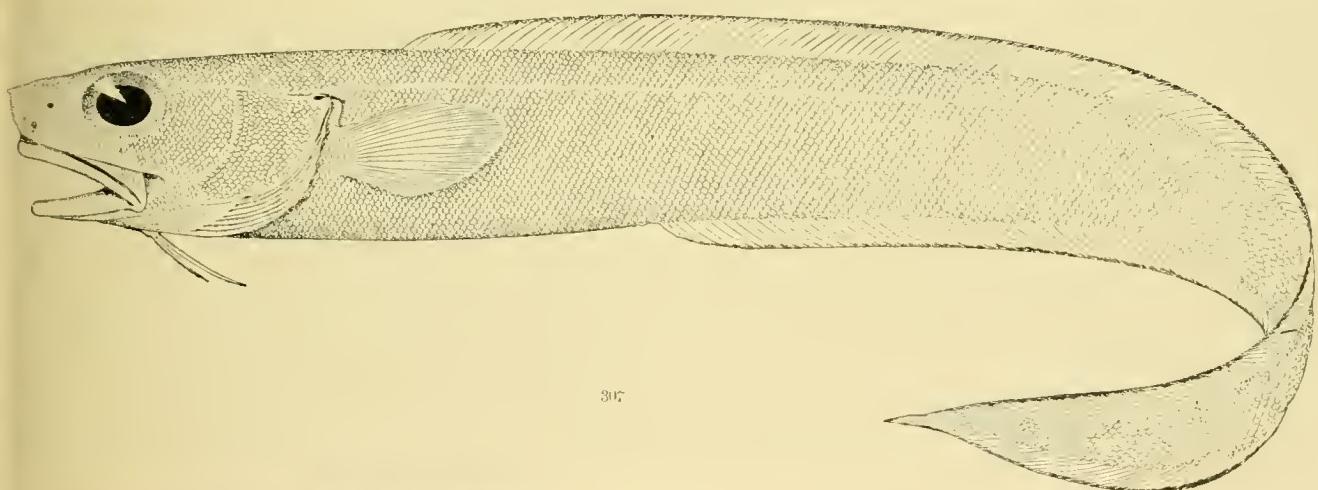
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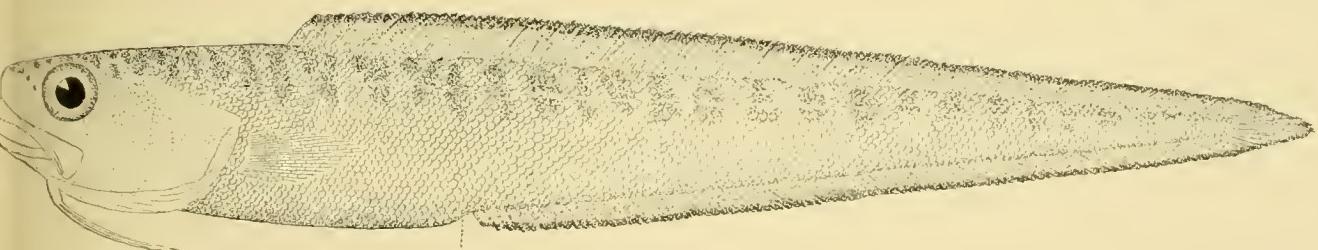
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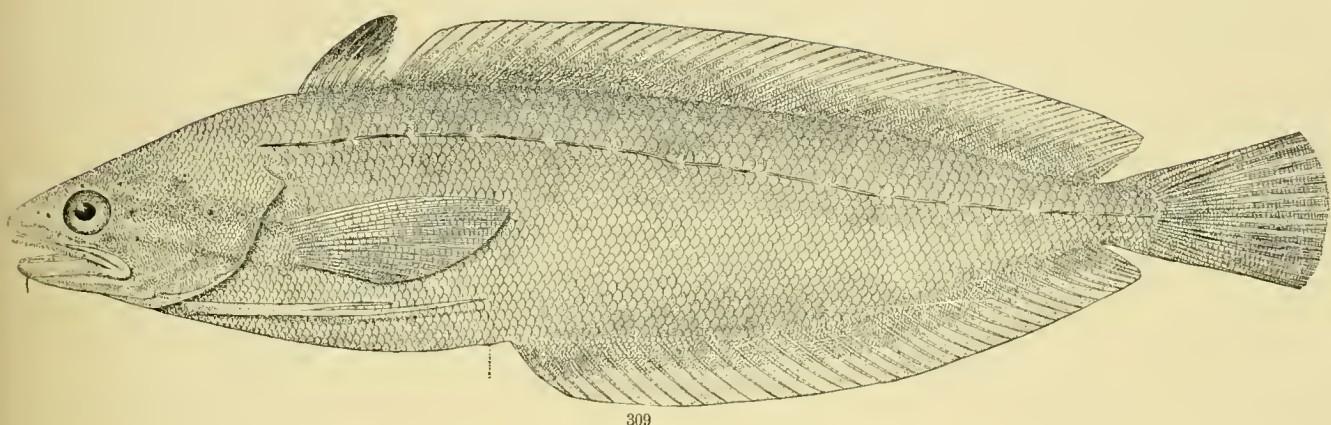


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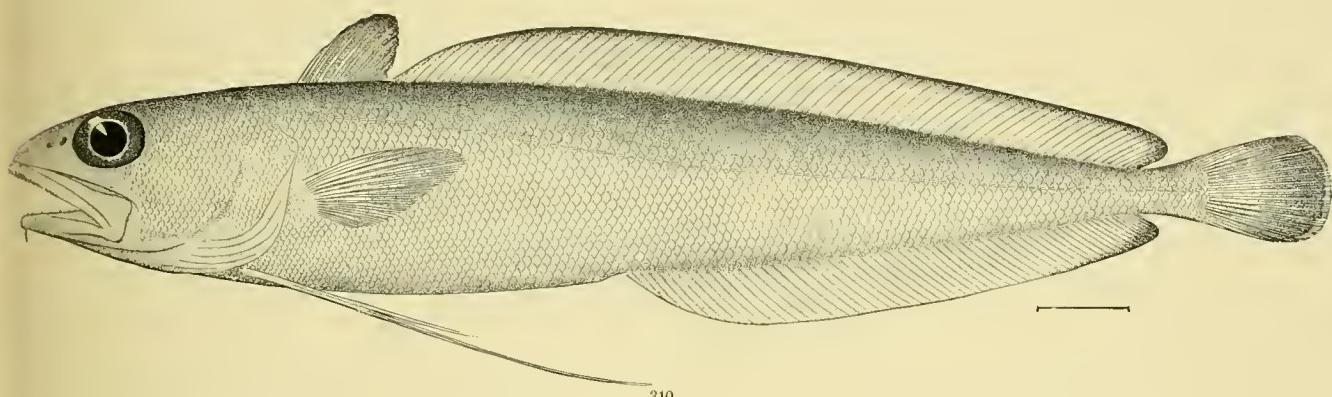
304. *Ptilichthys Goodei*. (p. 302.)
306. *Leptophidium cervinum*. (p. 346.)

305. *Otophidium omostigma*. (p. 345.)
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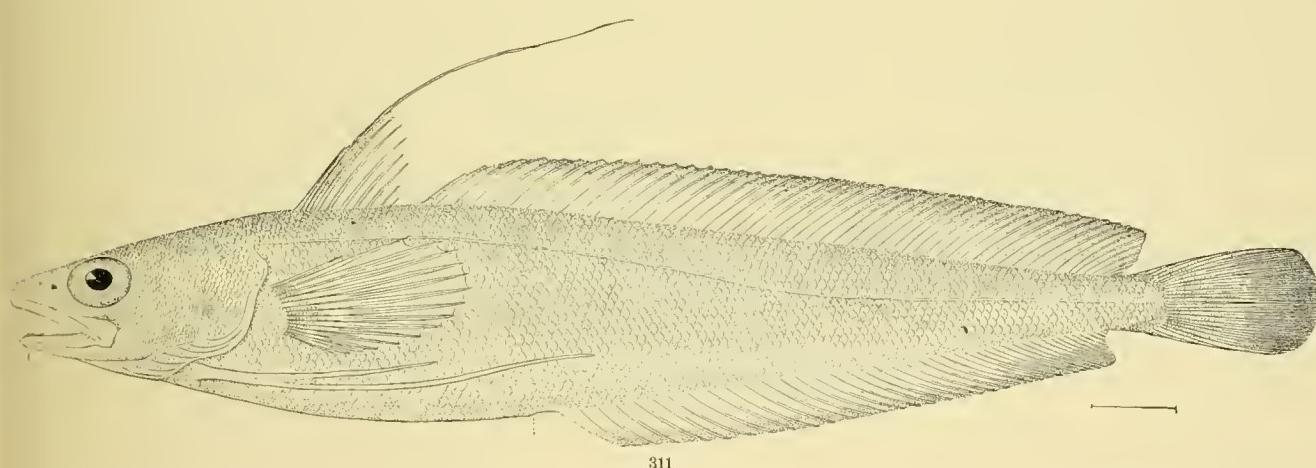
308. *Leptophidium marmoratum*. (p. 348.)



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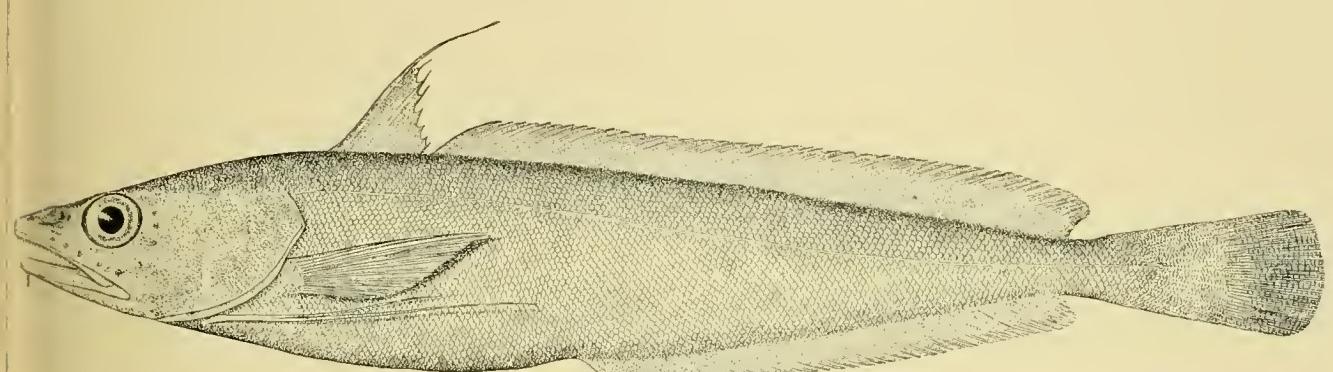


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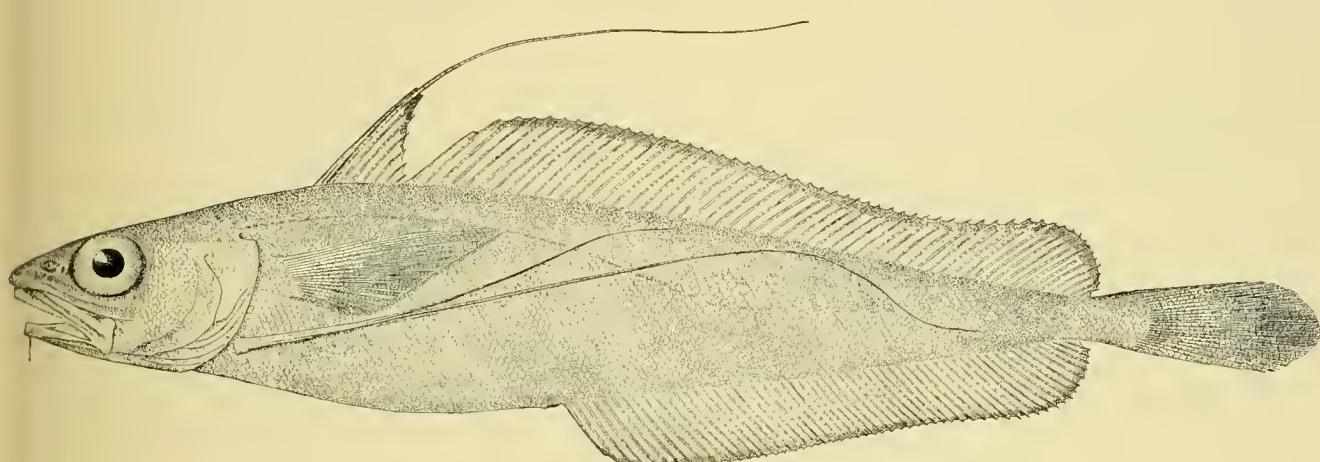


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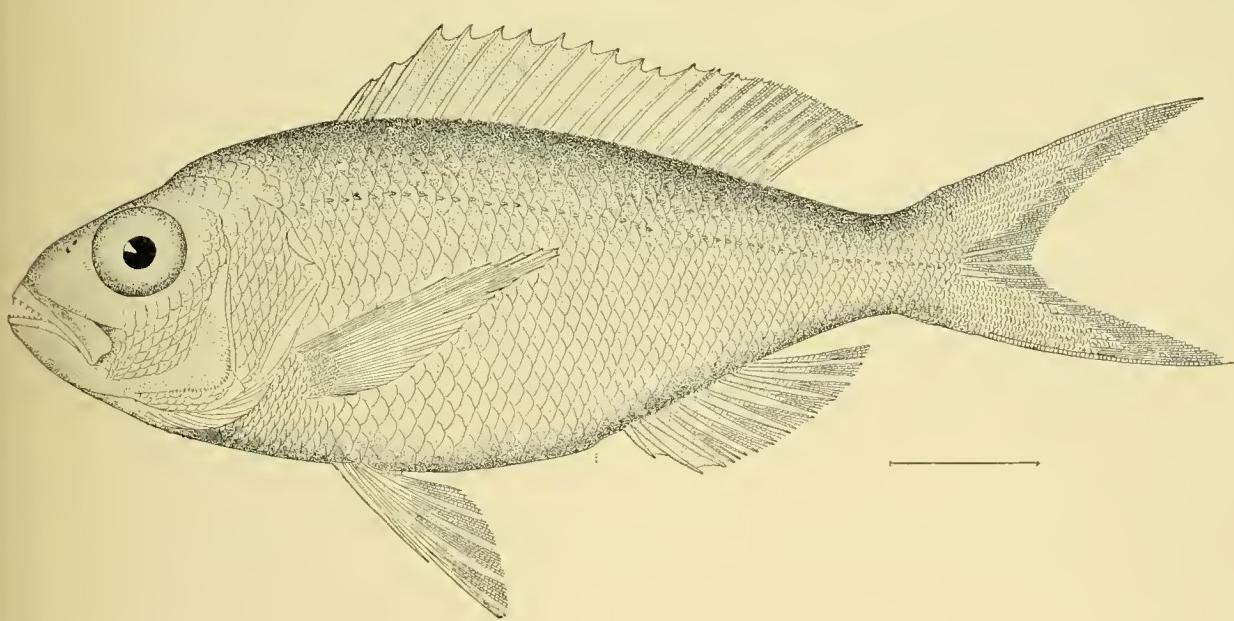
309. *PHYCIS REGIUS.* (p. 357.)310. *PHYCIS CIRRATUS.* (p. 358.)311. *PHYCIS CHUSS.* (p. 359.)



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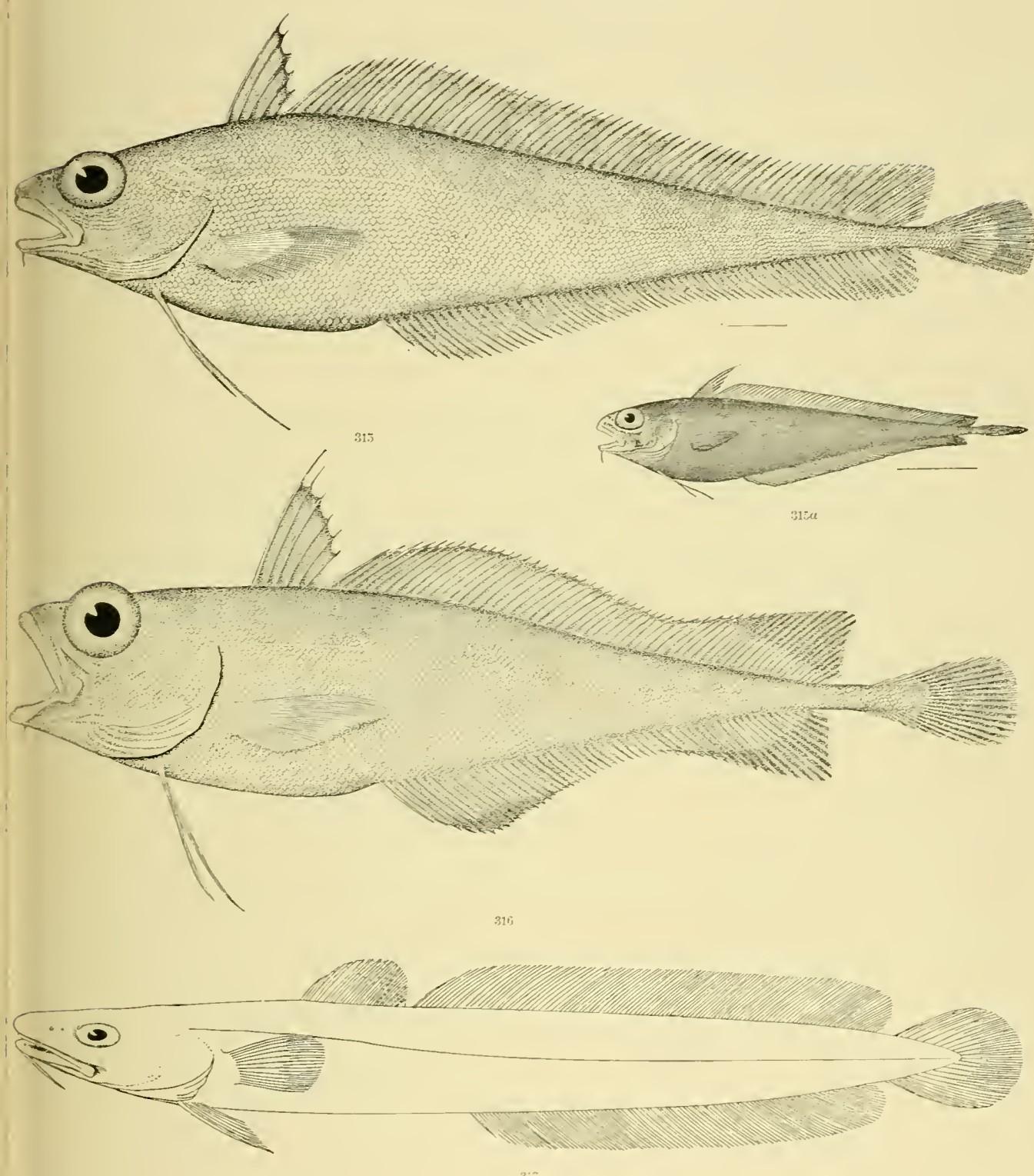


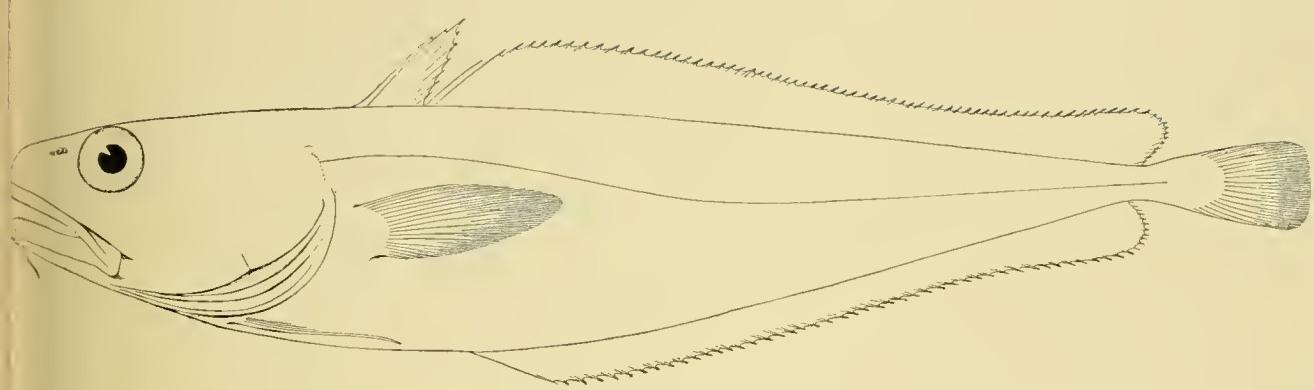
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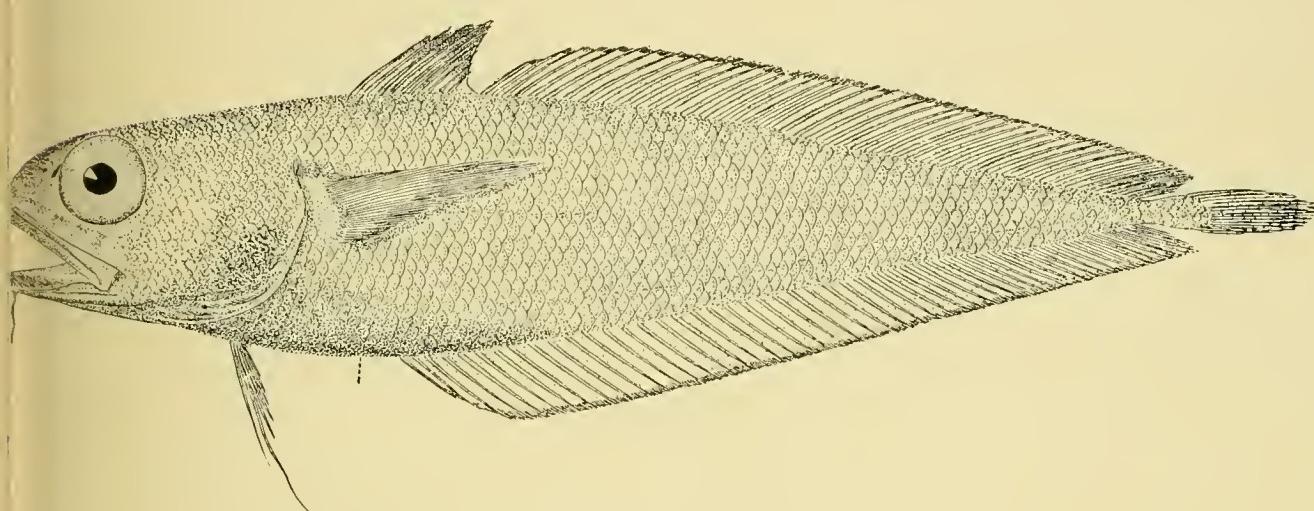
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312. *PHYCIS TENUIS.* (p. 359.)313. *PHYCIS CHESTERI.* (p. 360.)314. *APRION MACROPHTHALMUS.* (p. 239.)

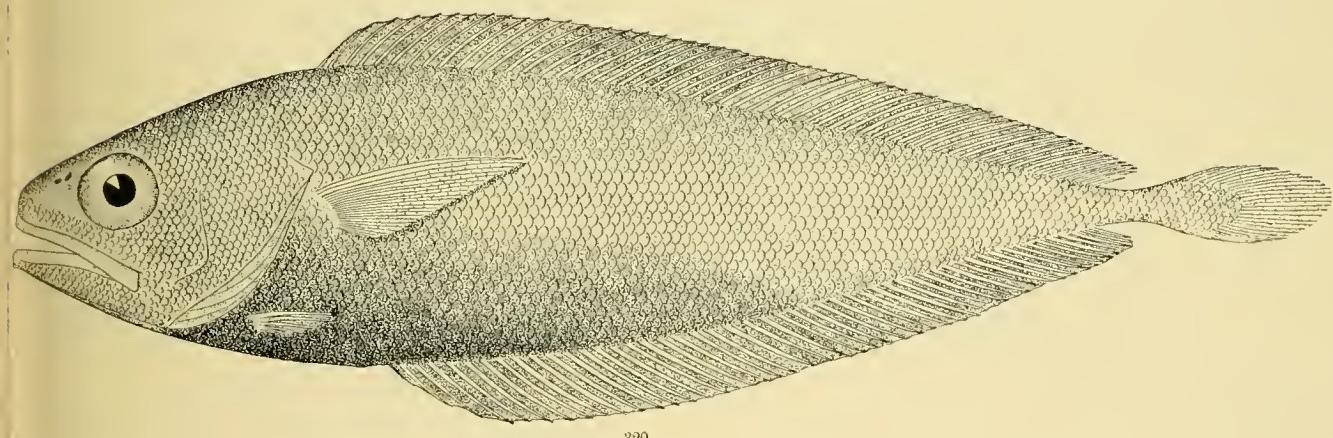
315, 315a. *Læmonema barbatula*. (p. 362.)317. *Molva vulgaris*. (p. 364.)316. *Læmonema melanurum*. (p. 363.)



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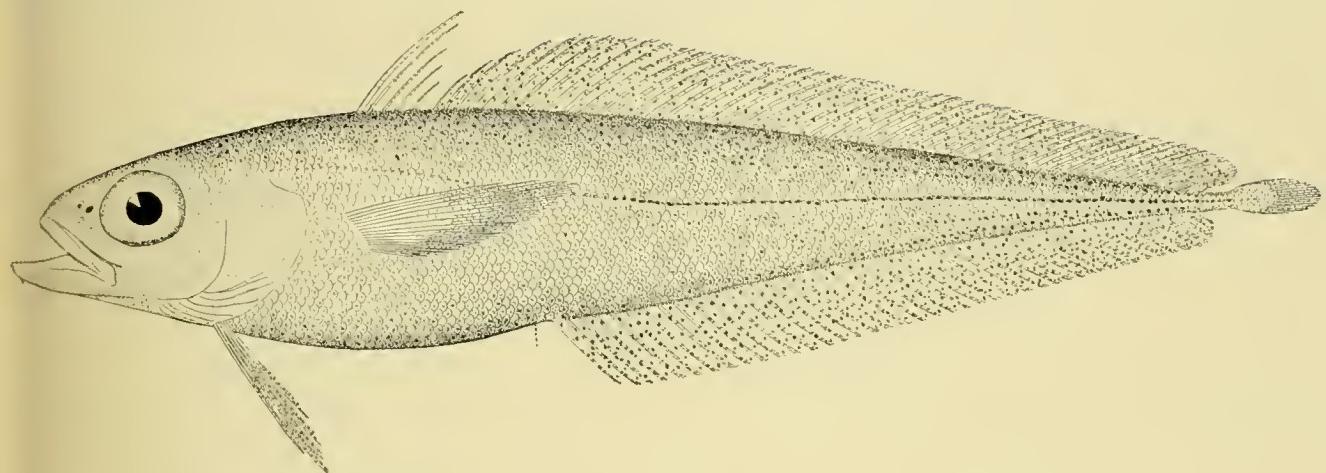


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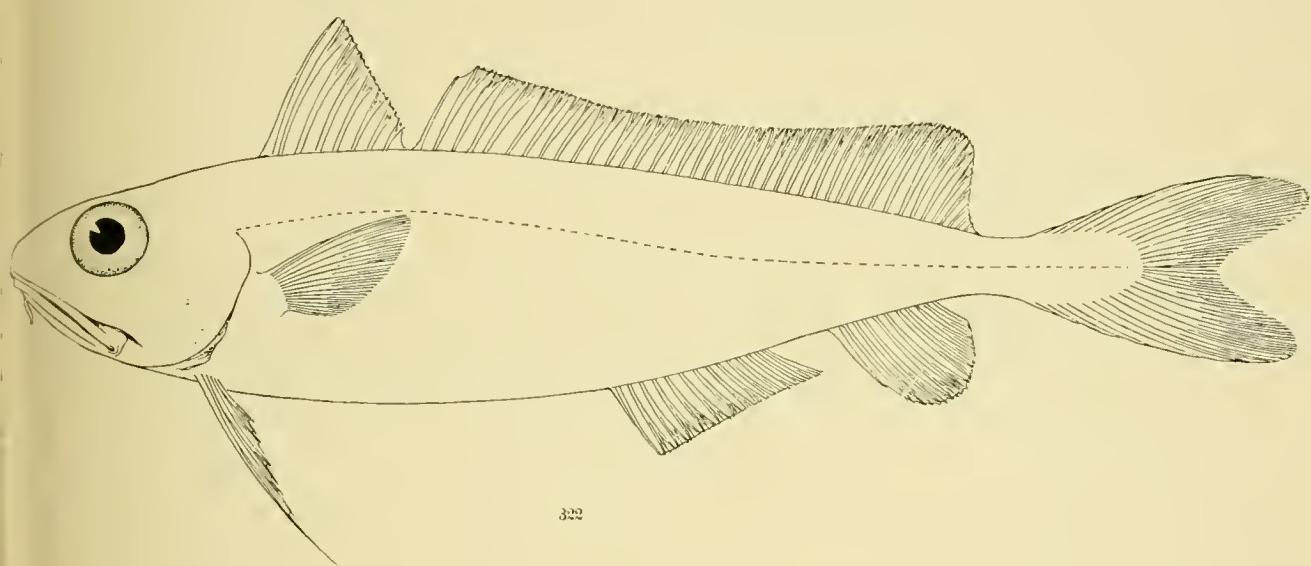
318. PHYSICULUS KAUPI. (p. 366.)

319. PHYSICULUS FULVUS. (p. 366.)

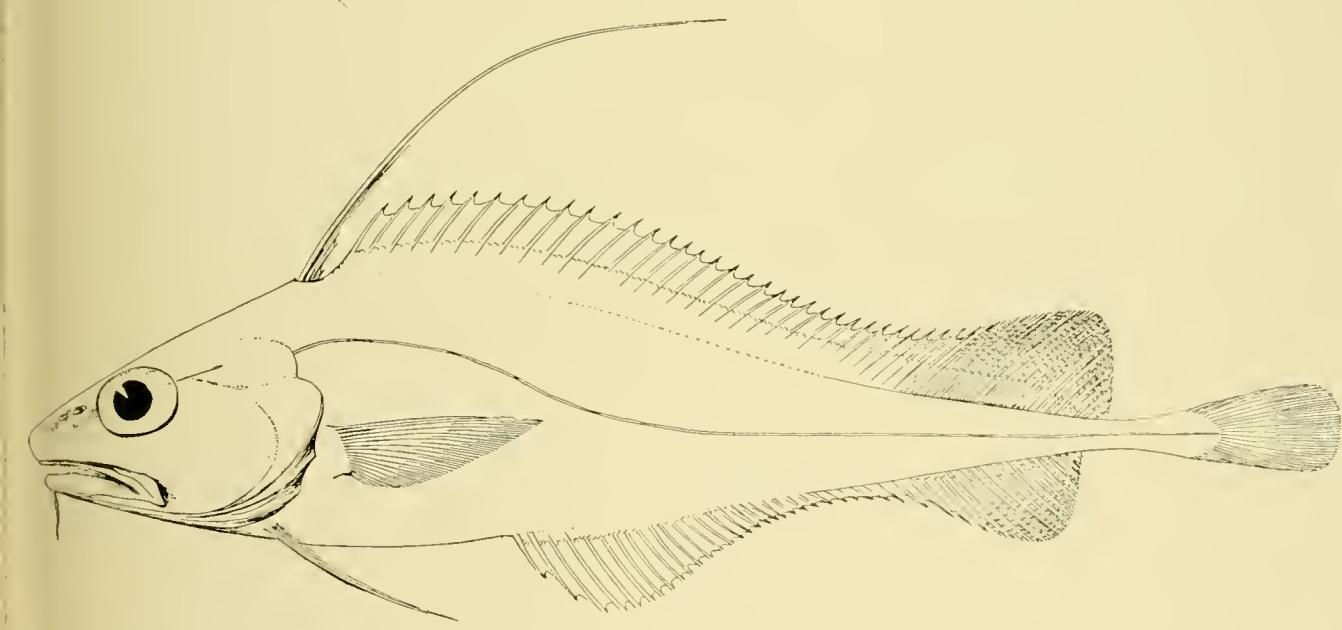
320. URALEPTUS MARALDI. (p. 367.)



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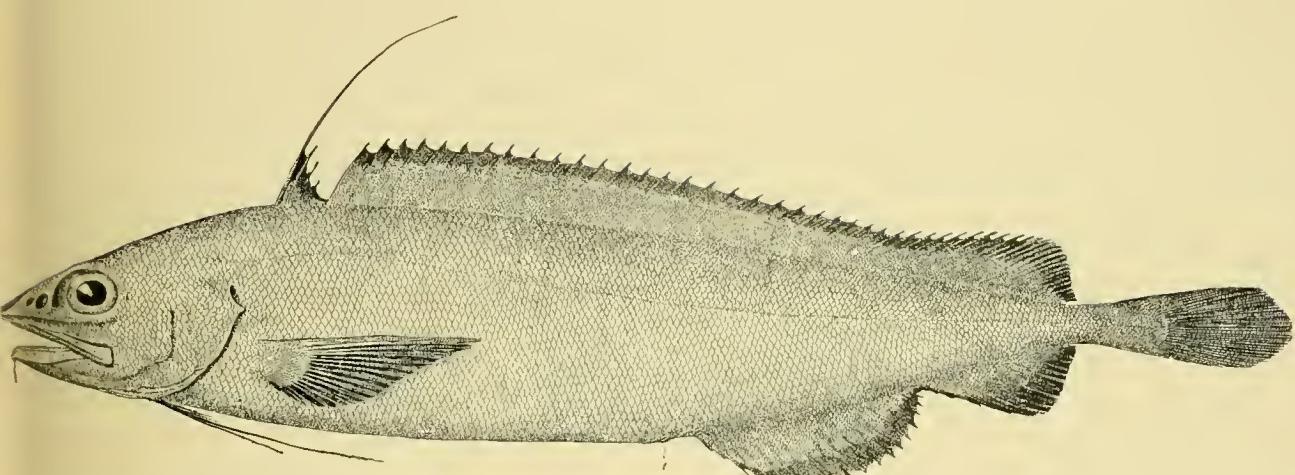


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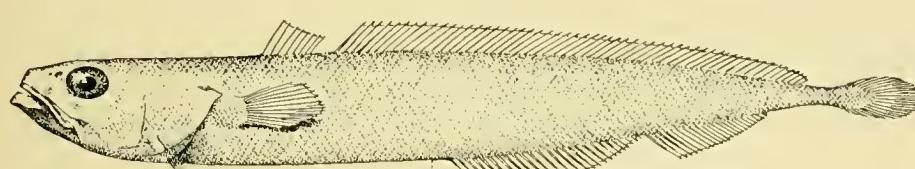


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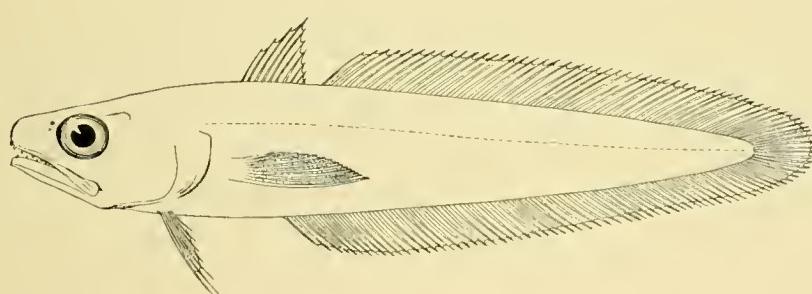
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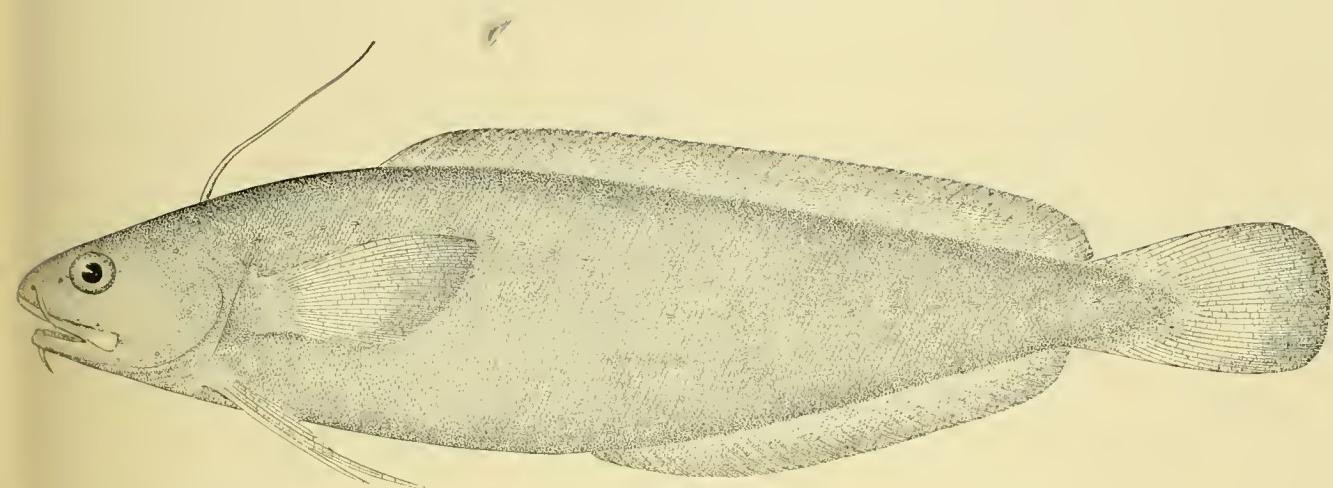


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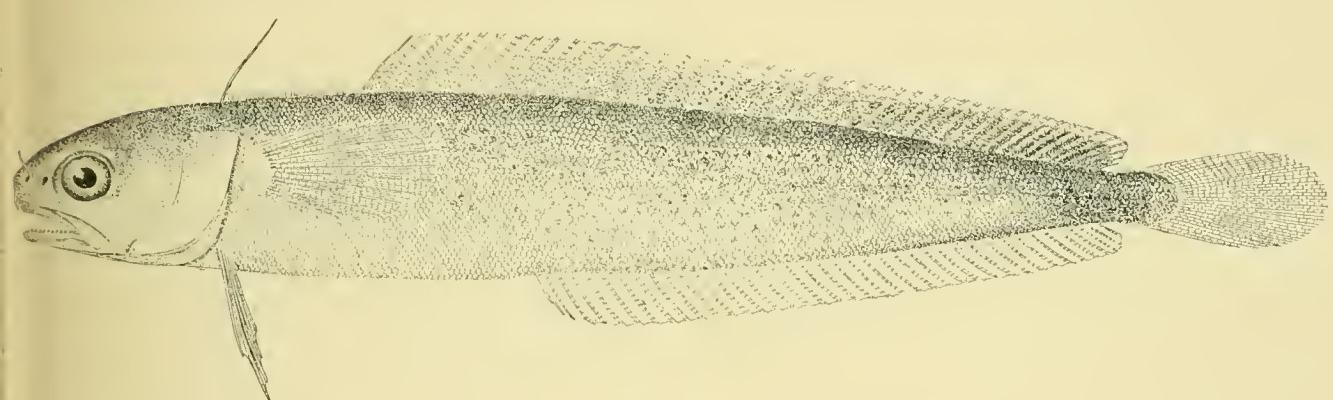
324. ANTIMORA VIOLA. (p. 372.)

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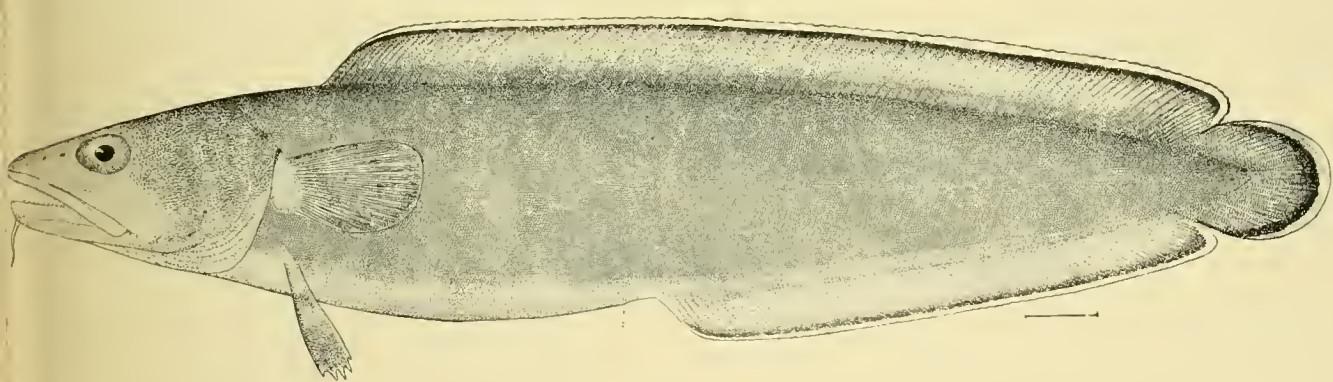
326. STRINSIA TINCA. (p. 380.)



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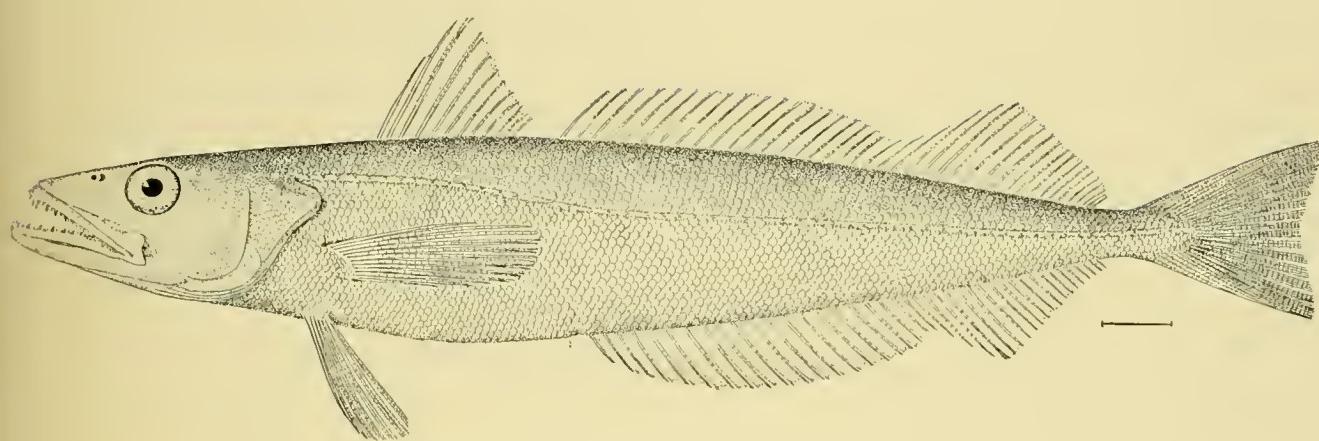


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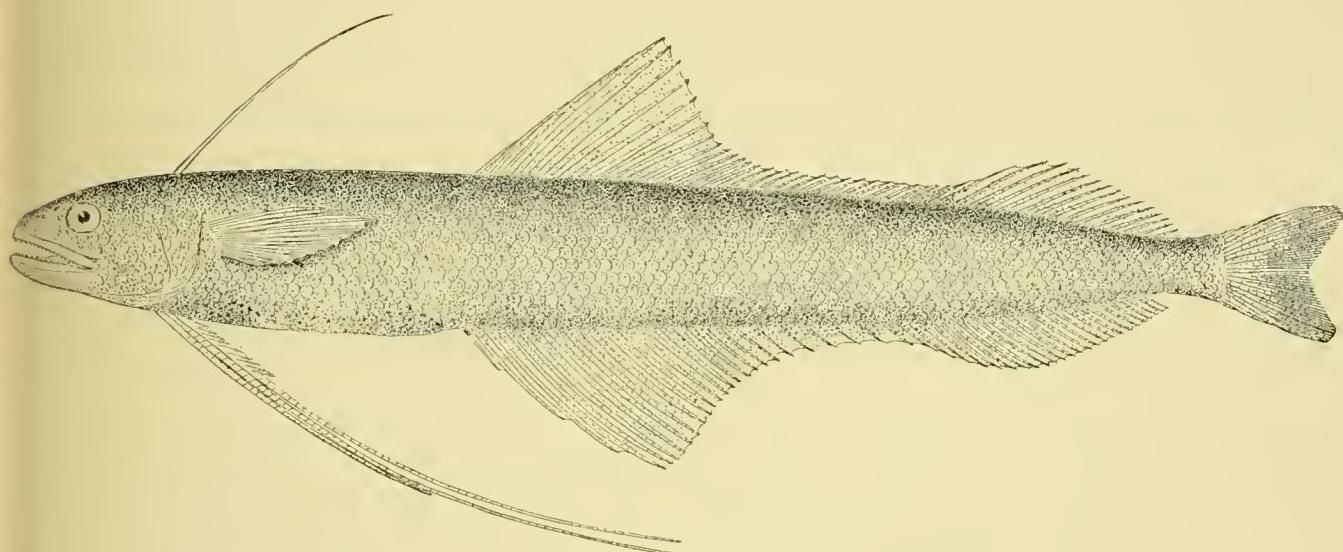


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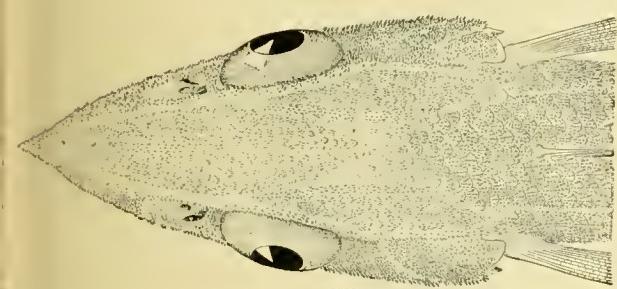
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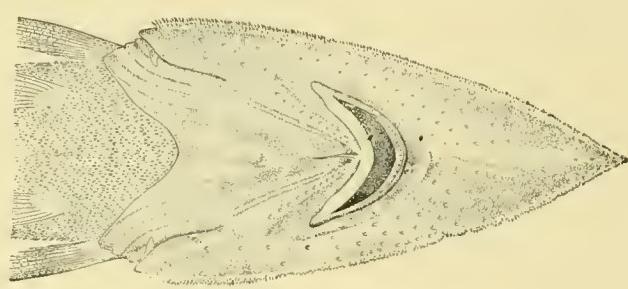
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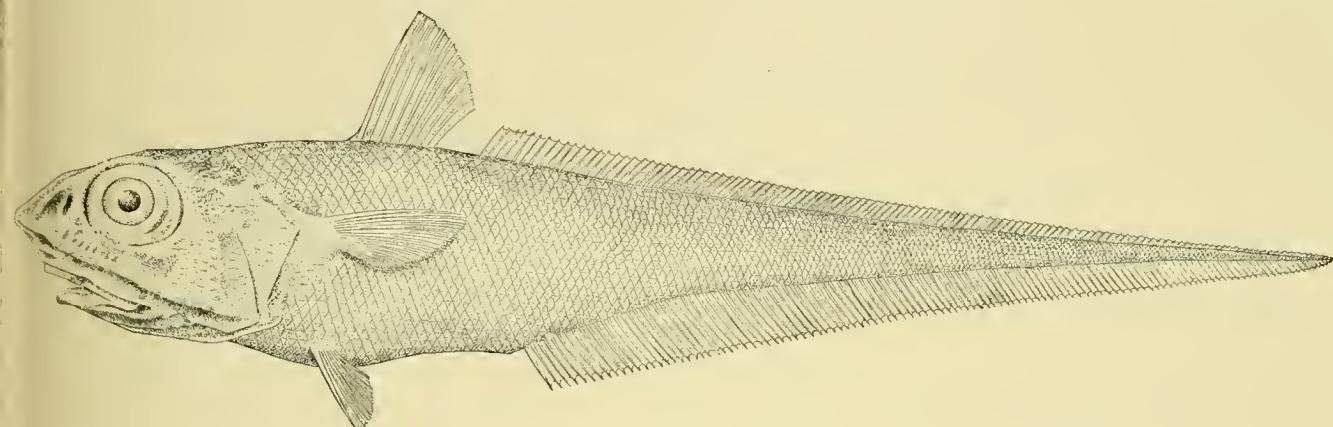


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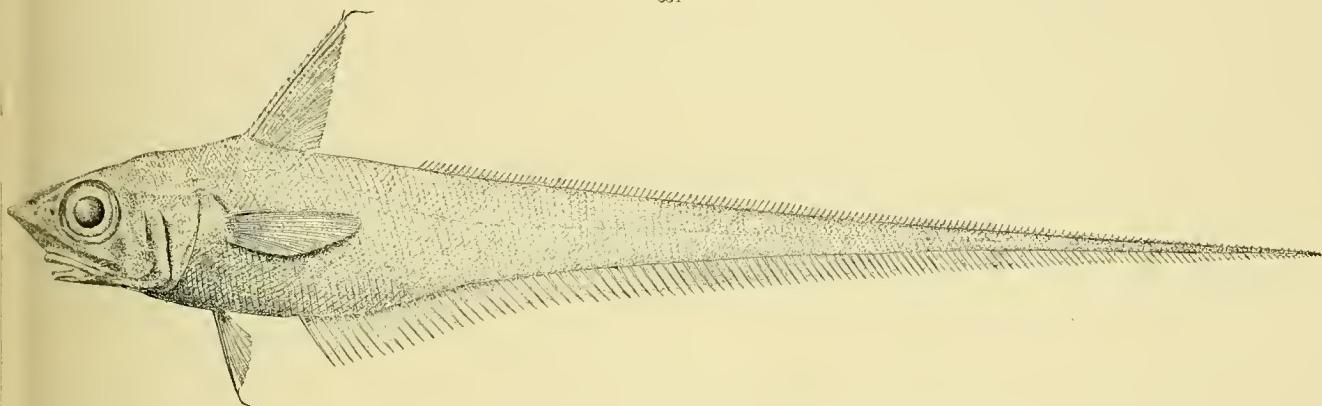


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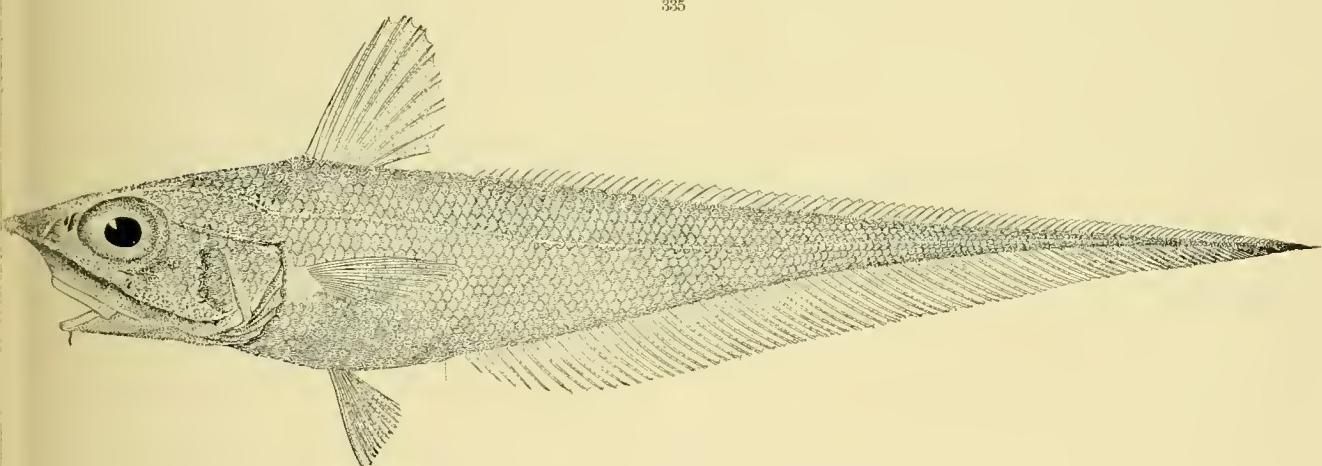
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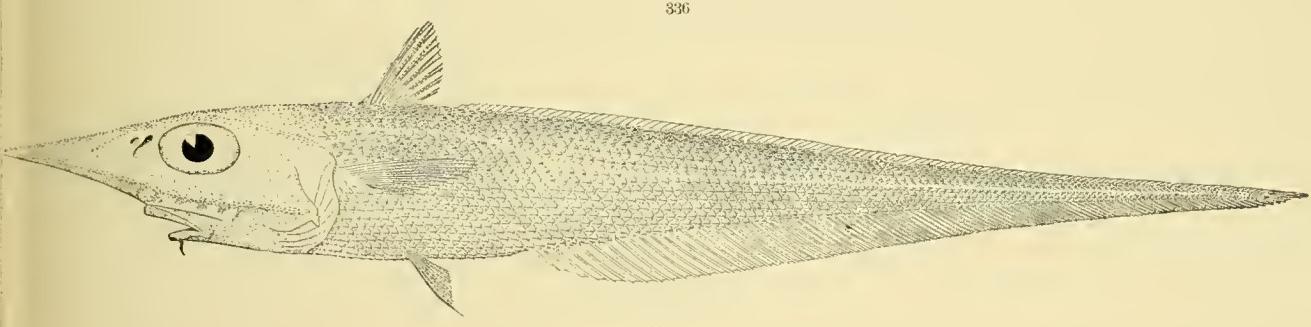
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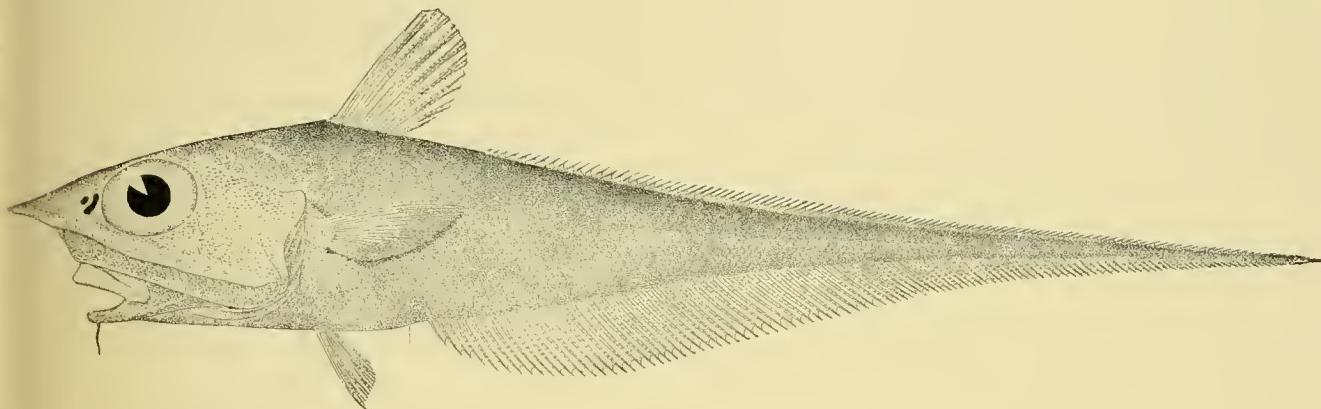
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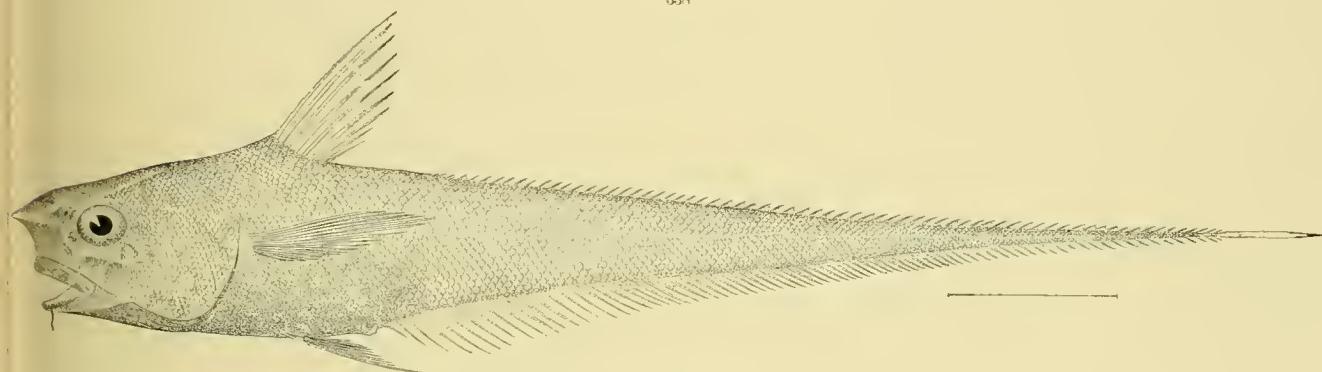
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336. *CÆLORHYNCHUS CARMINATUS*. (p. 398.)

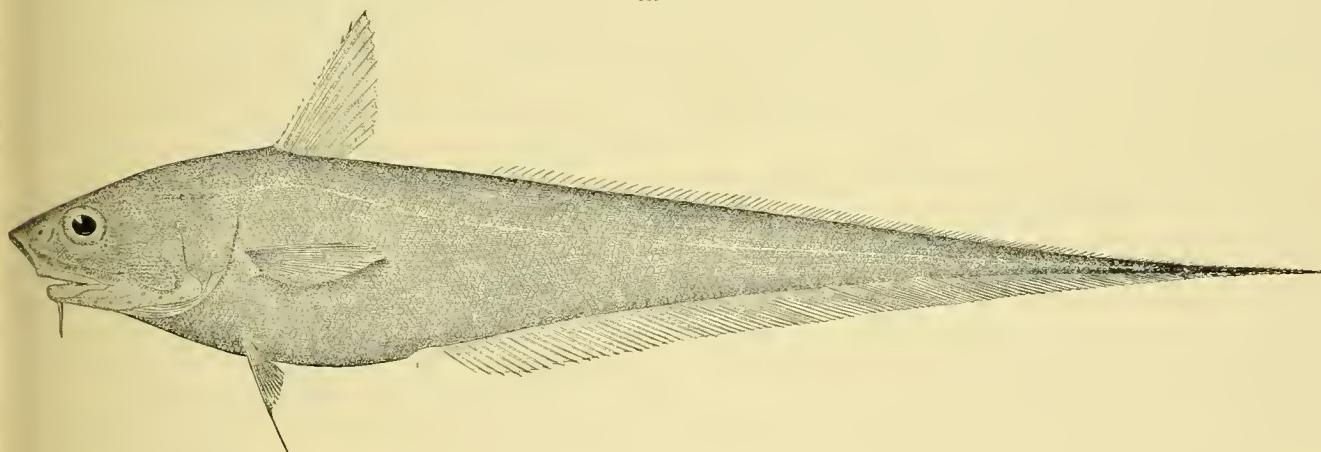
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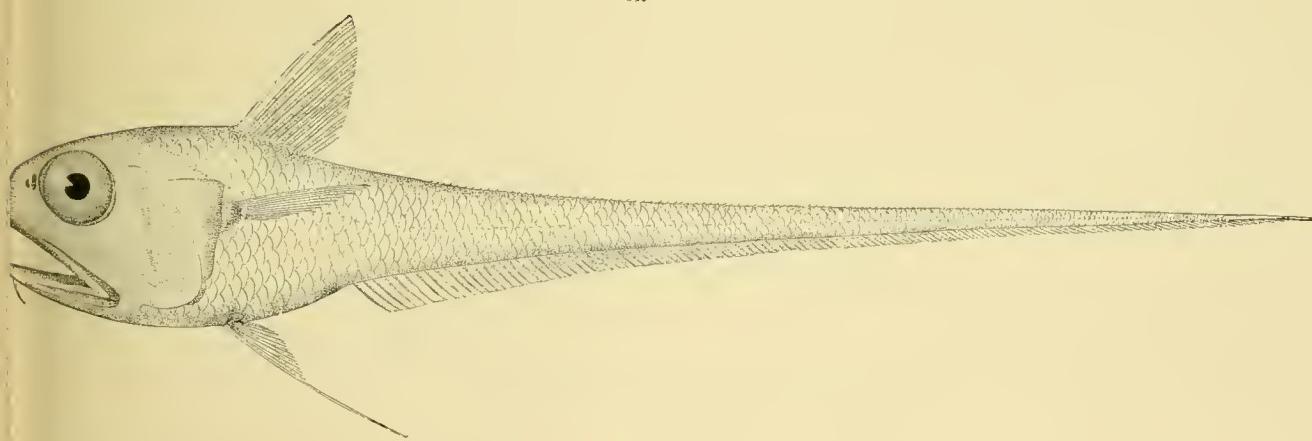
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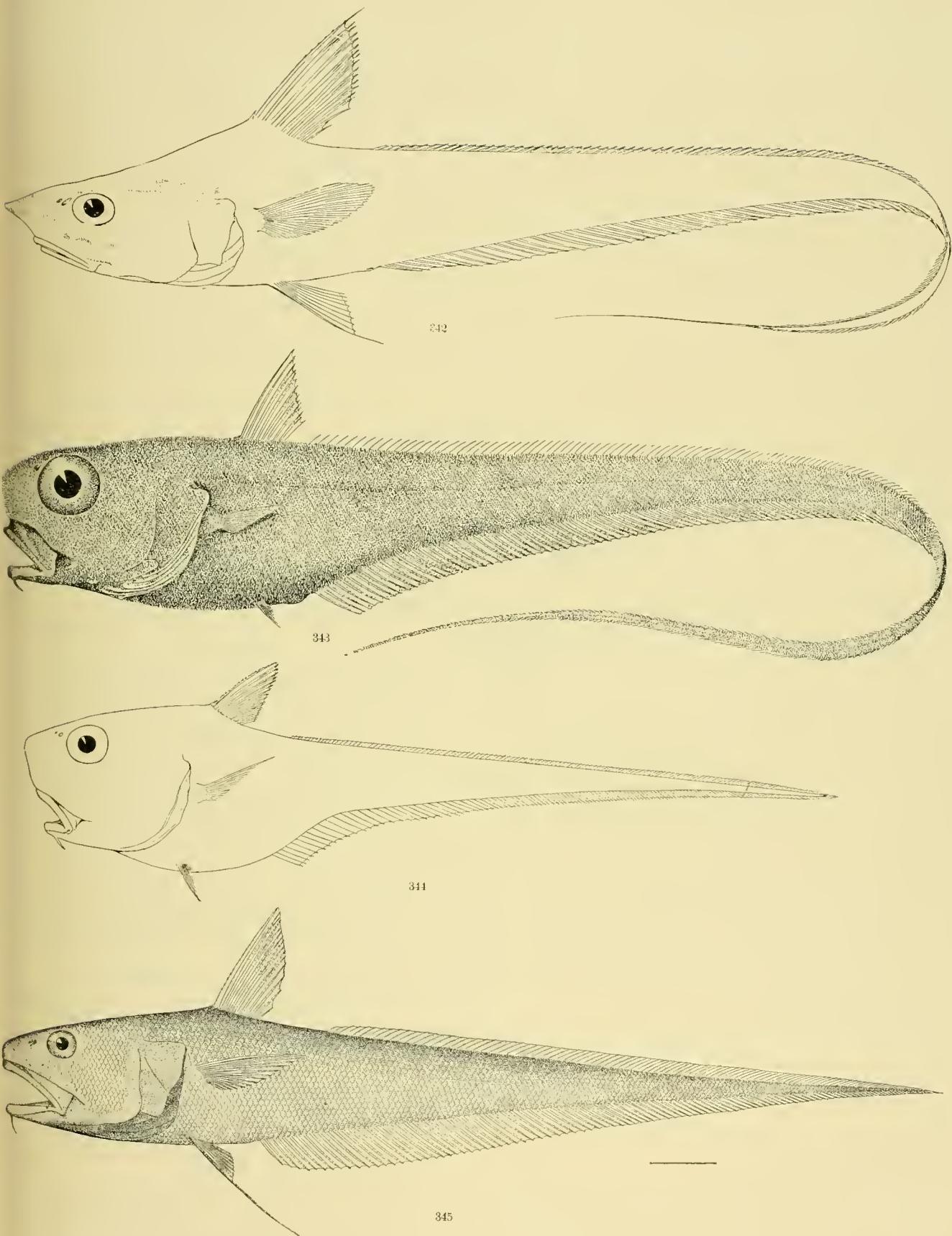
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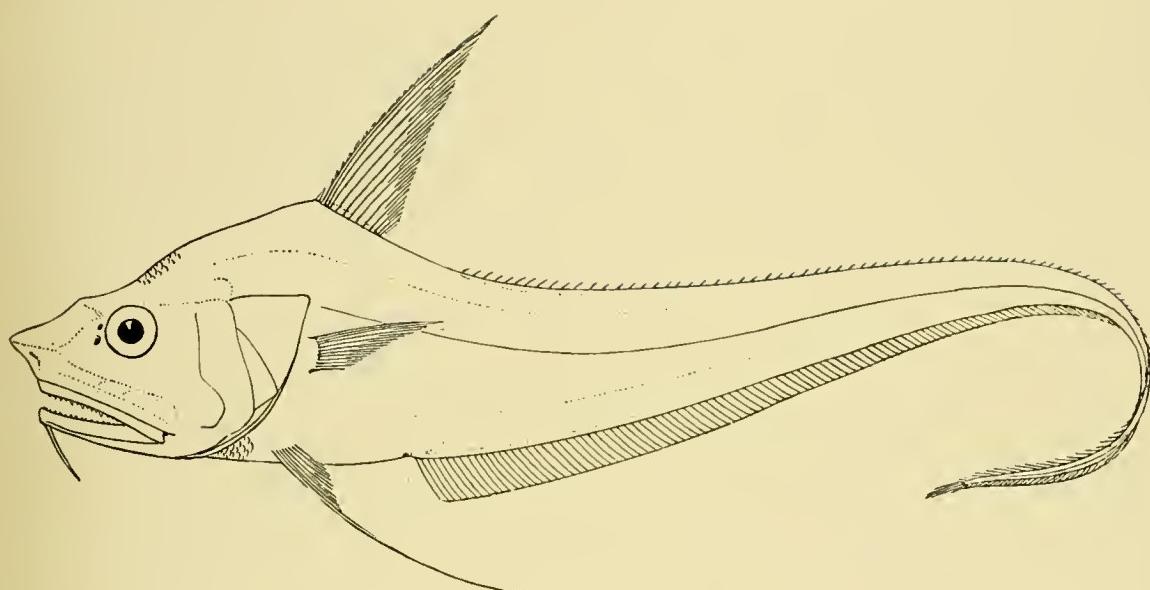
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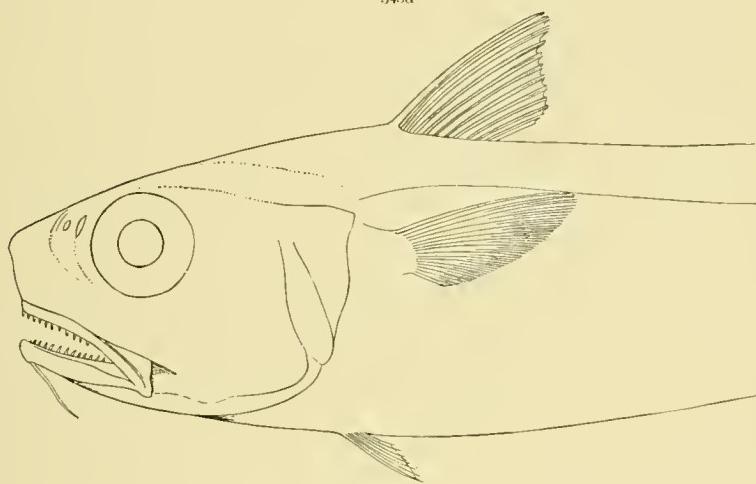


342. *LIONURUS FILICAUDA*. (p. 409.)
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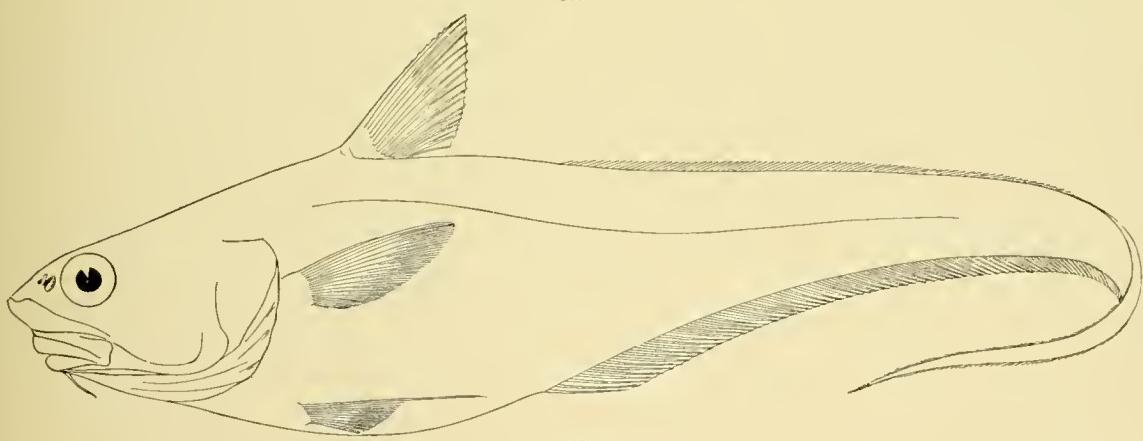
343. *TRACHONURUS SULCATUS*. (p. 410.)
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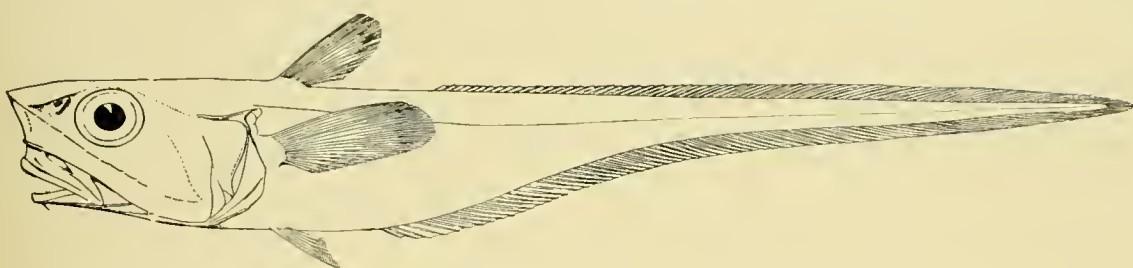


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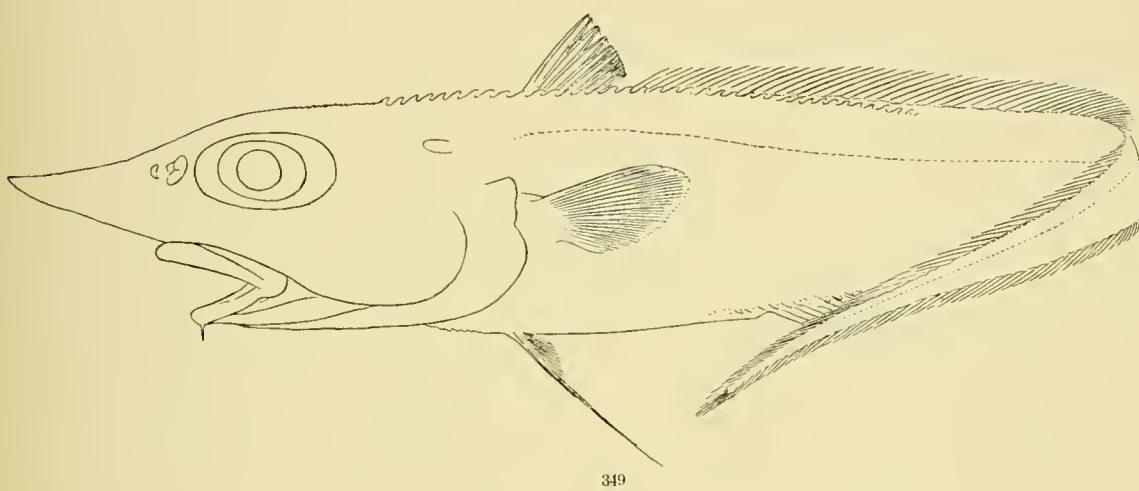
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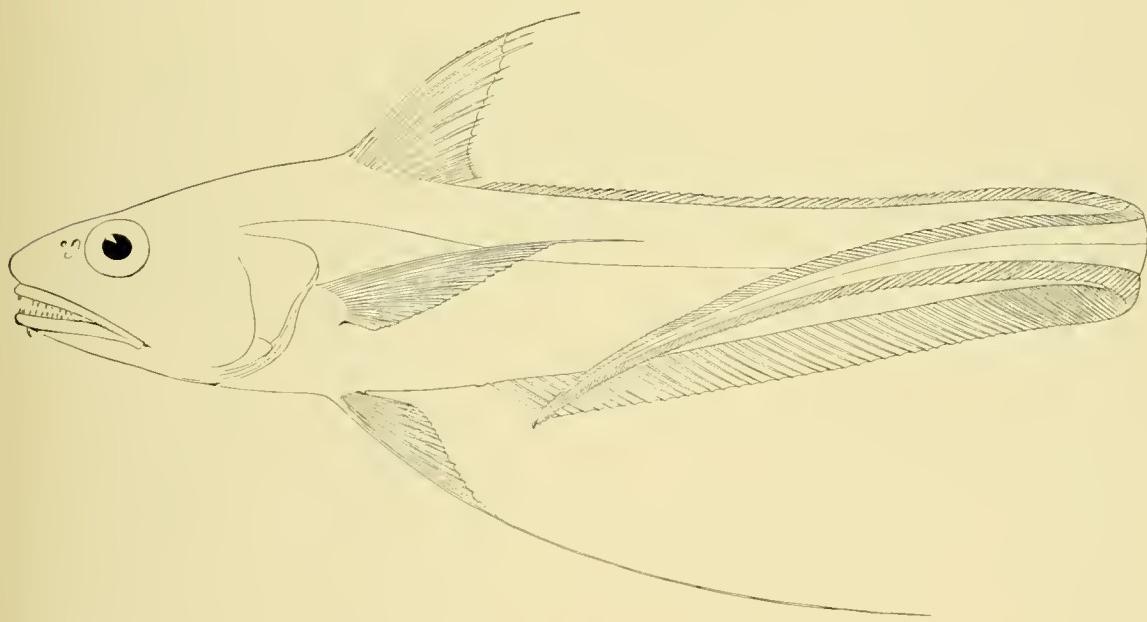
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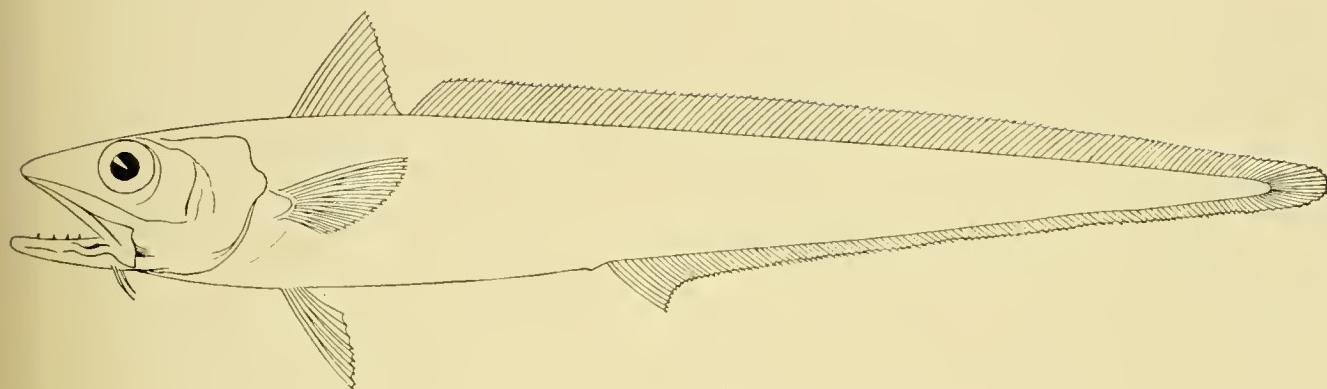


349a

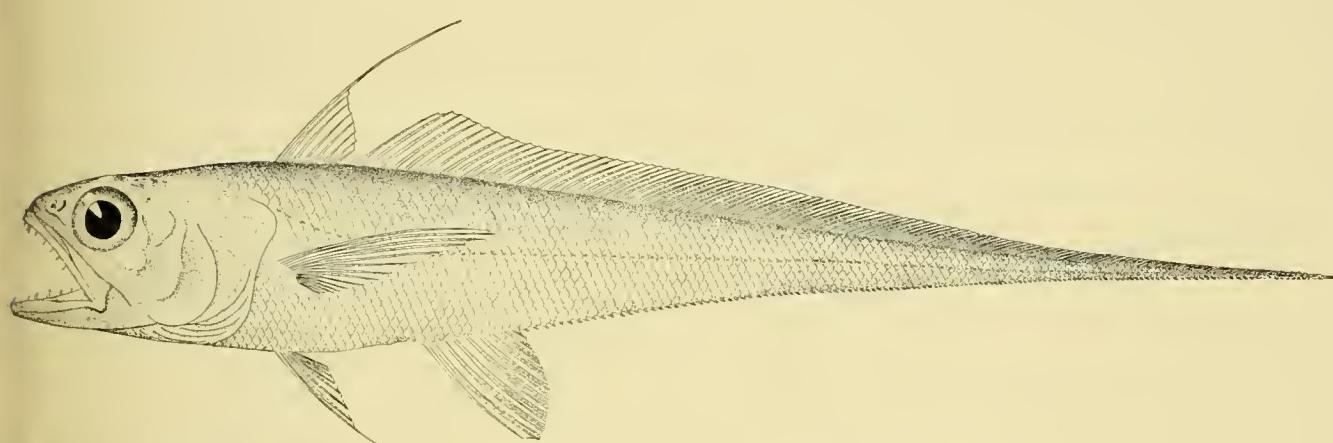
348. ABYSSICOLA MACROCHIRA. (p. 417.)

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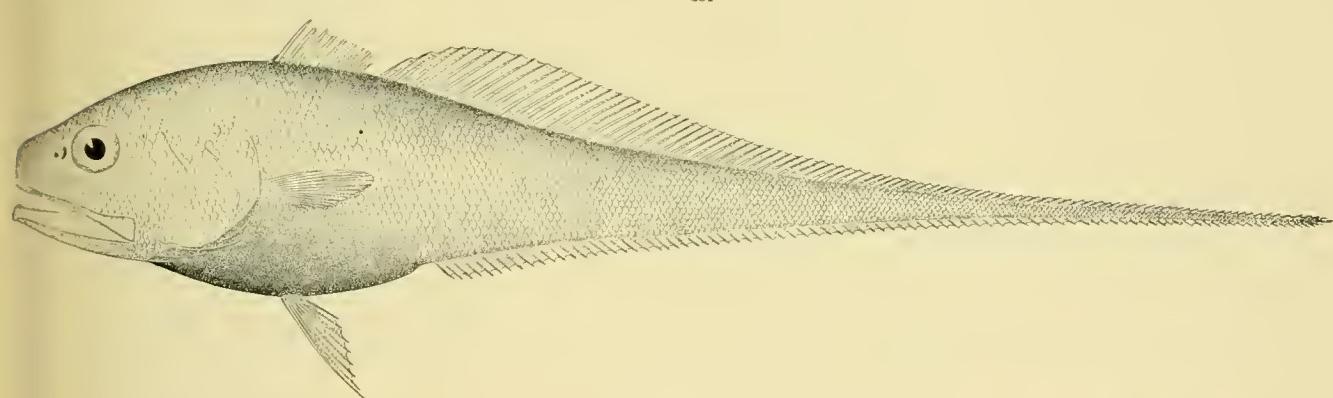
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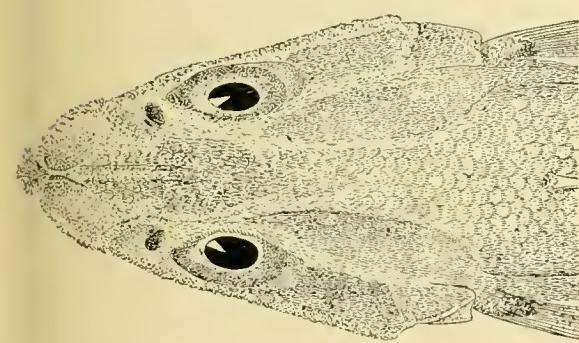
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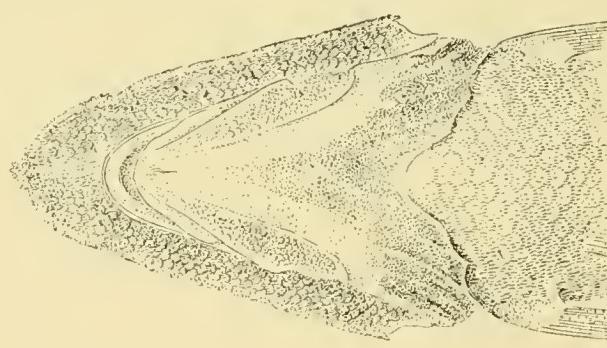
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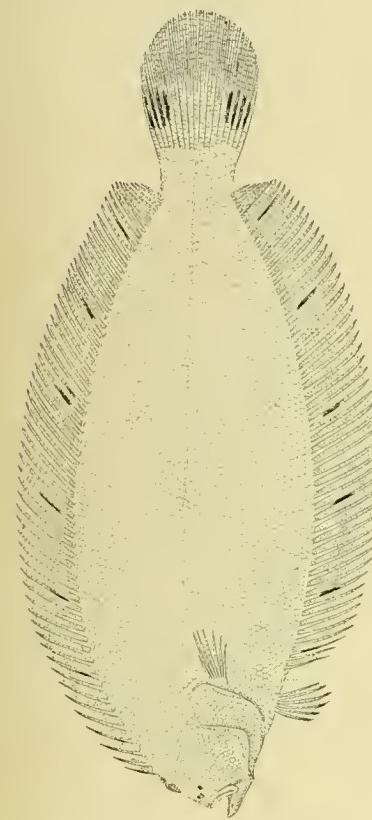
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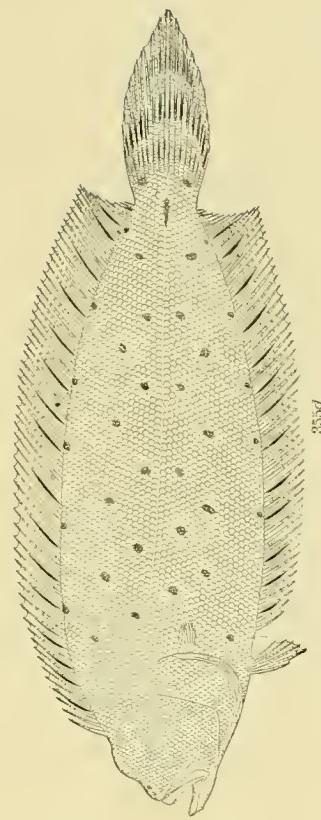
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350. *MACRURONUS NOVÆ-ZELANDIÆ.* (p. 418.)
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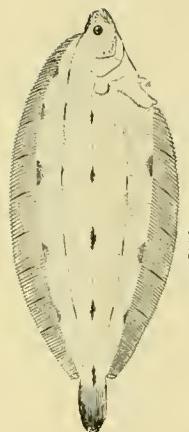
351. *STEINDACHNERIA ARGENTEA.* (p. 419.)
353, 354. *CELORHYNCHUS CARMINATUS.* (p. 398.)



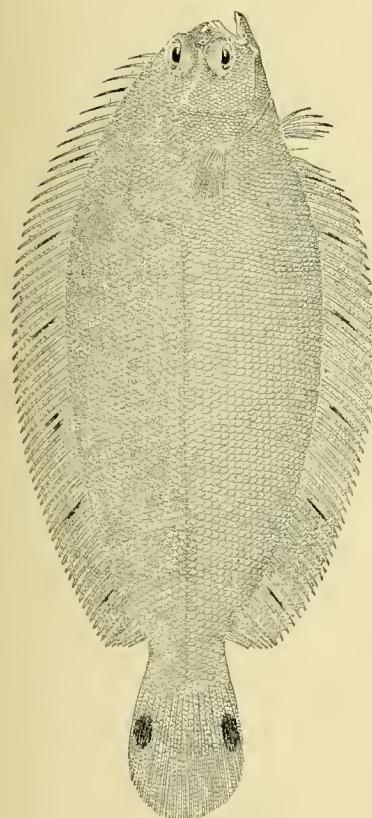
355b



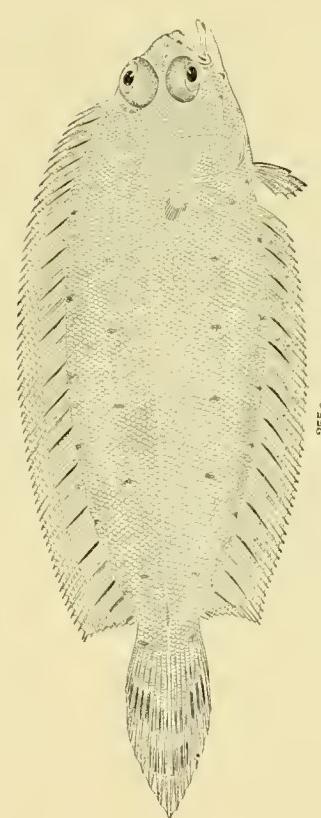
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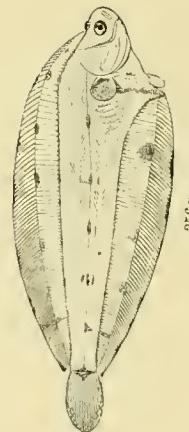
356b



355c

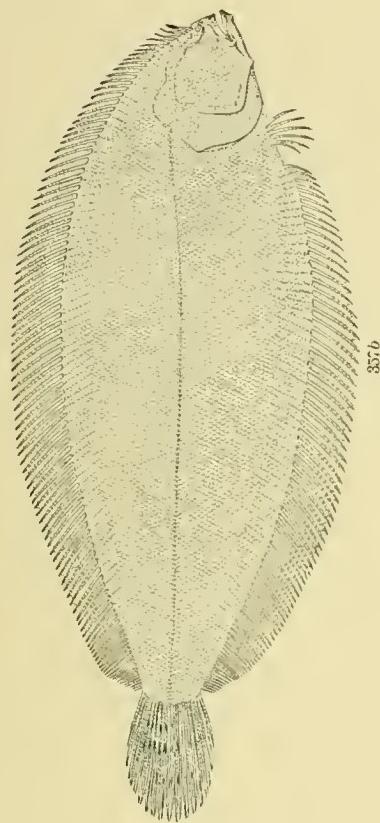


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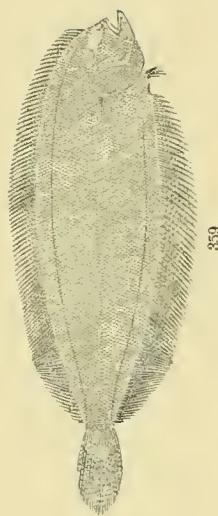


356a

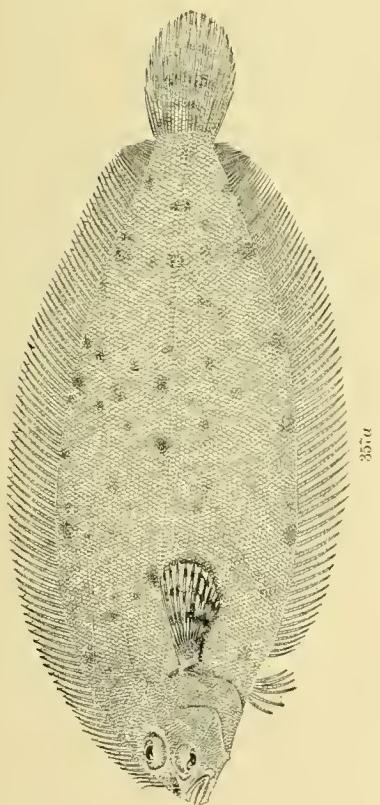
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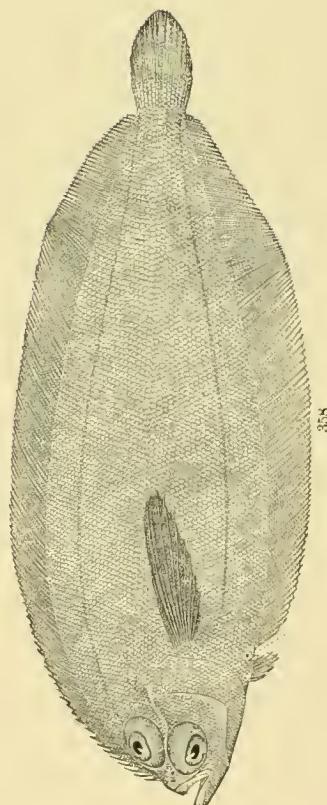
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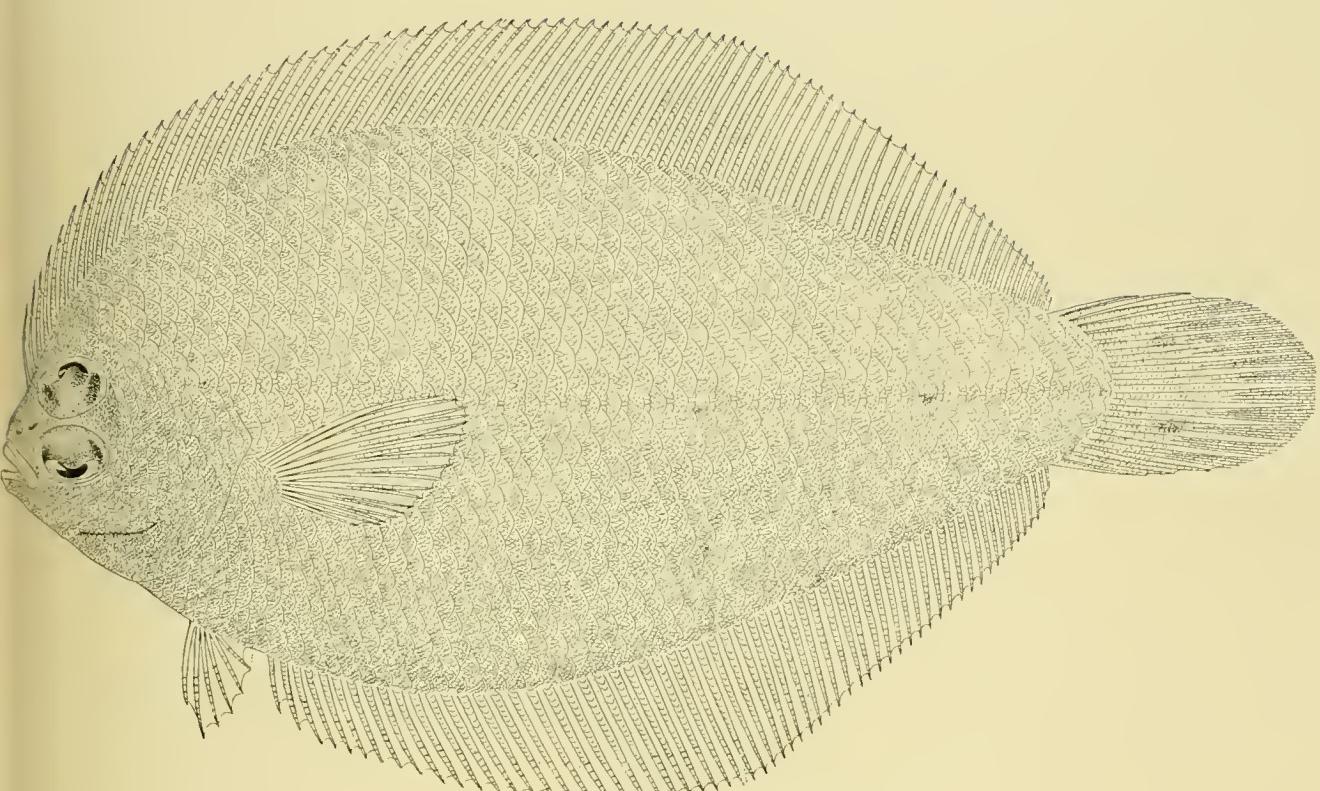
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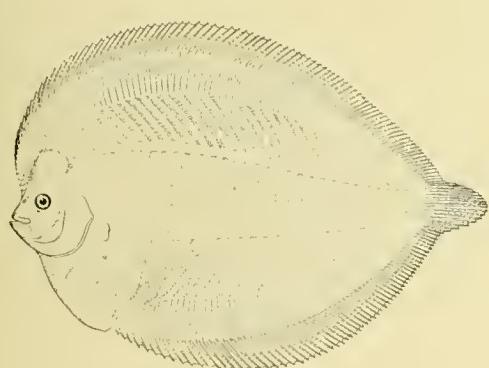
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357a, b. *MONOLENE SESSILICAUDA*. (p. 452.)

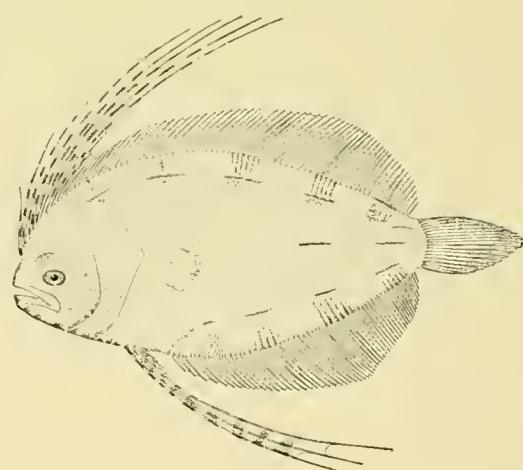
358, 359. *MONOLENE ATRIMANA*. (p. 455.)



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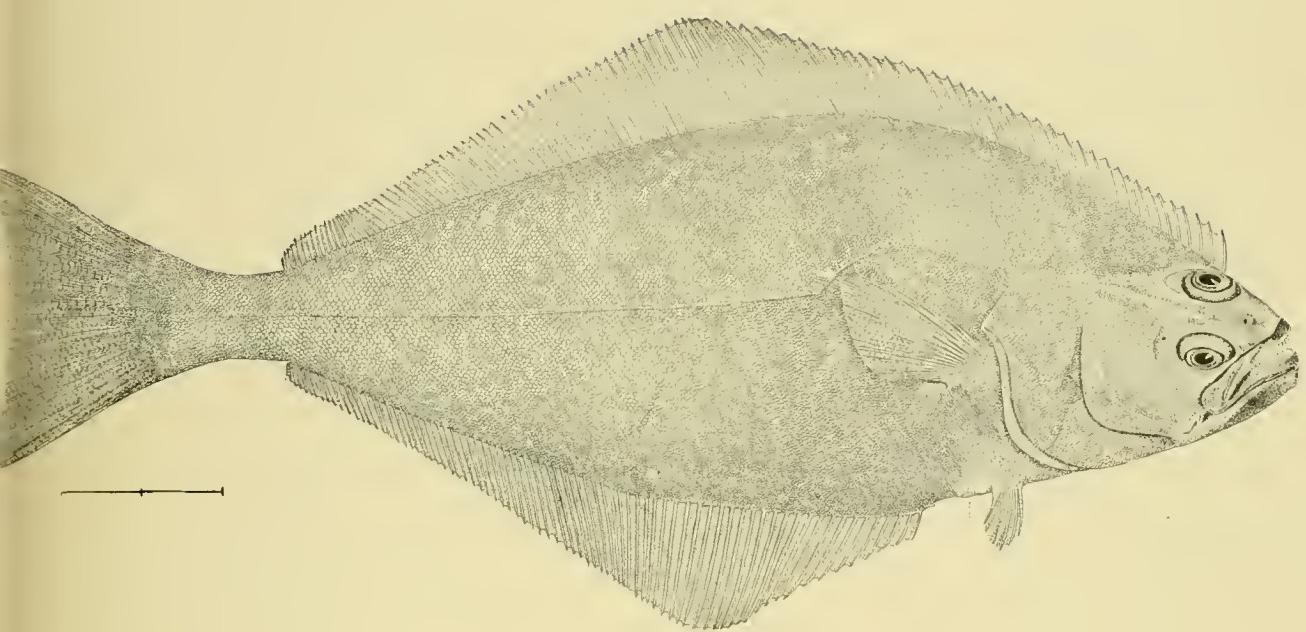


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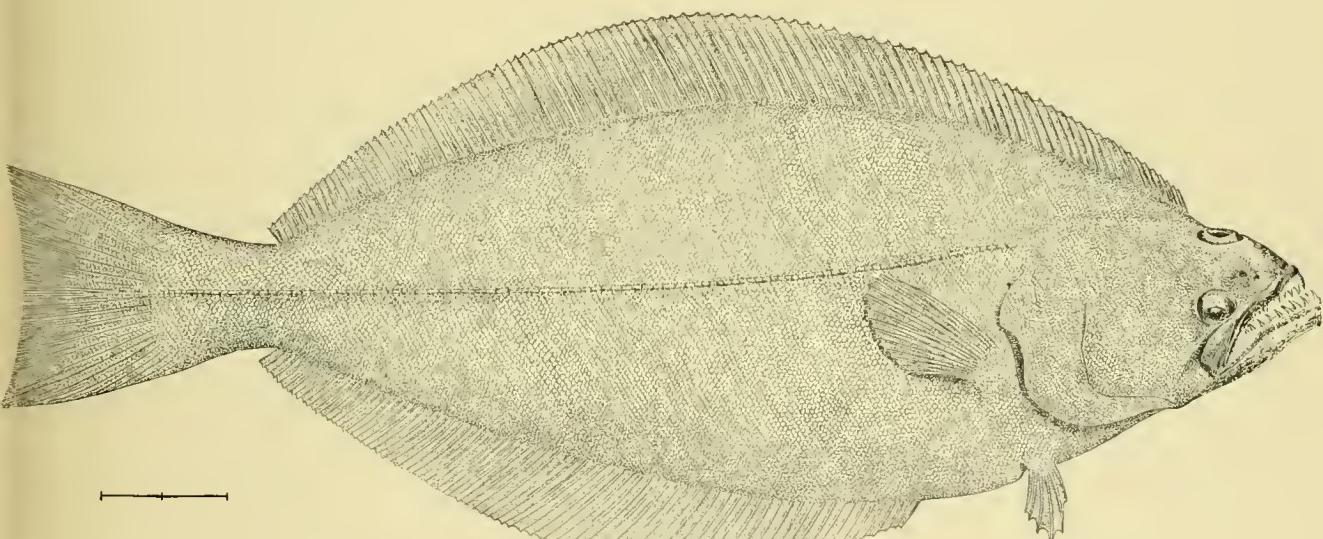


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360, 361. *ETROPS RIMOSUS*. (p. 450.)362. *NOTOSEMA DILECTA*. (p. 437.)



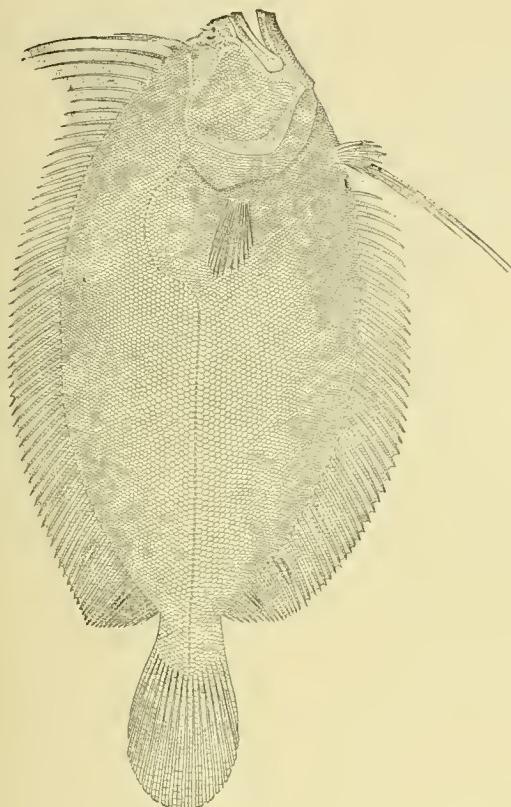
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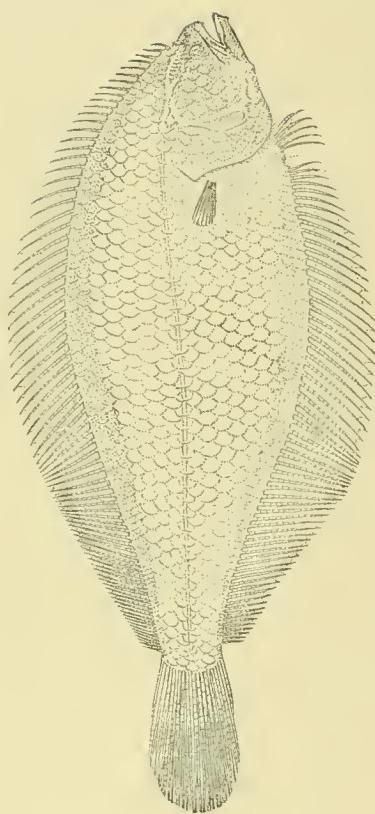
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363. *HIPPOGLOSSUS VULGARIS.* (p. 434.)

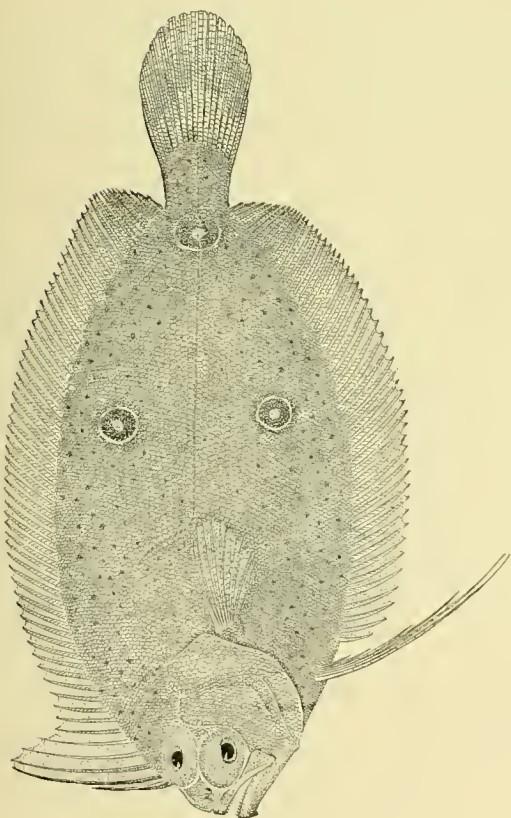
364. *PLATYSOMITCHYS HIPPOGLOSSOIDES.* (p. 435.)



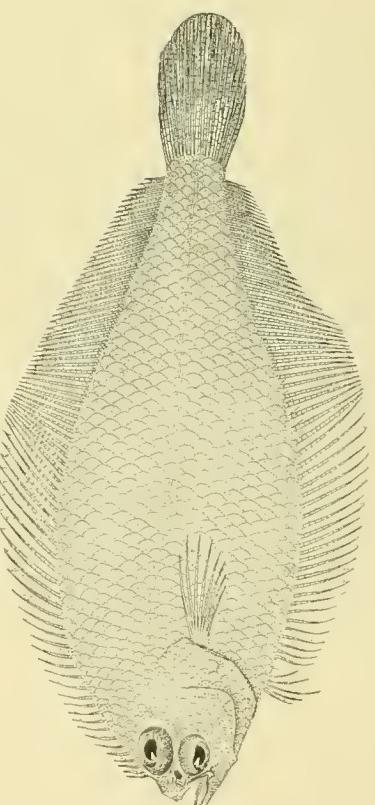
365*b*



366*b*



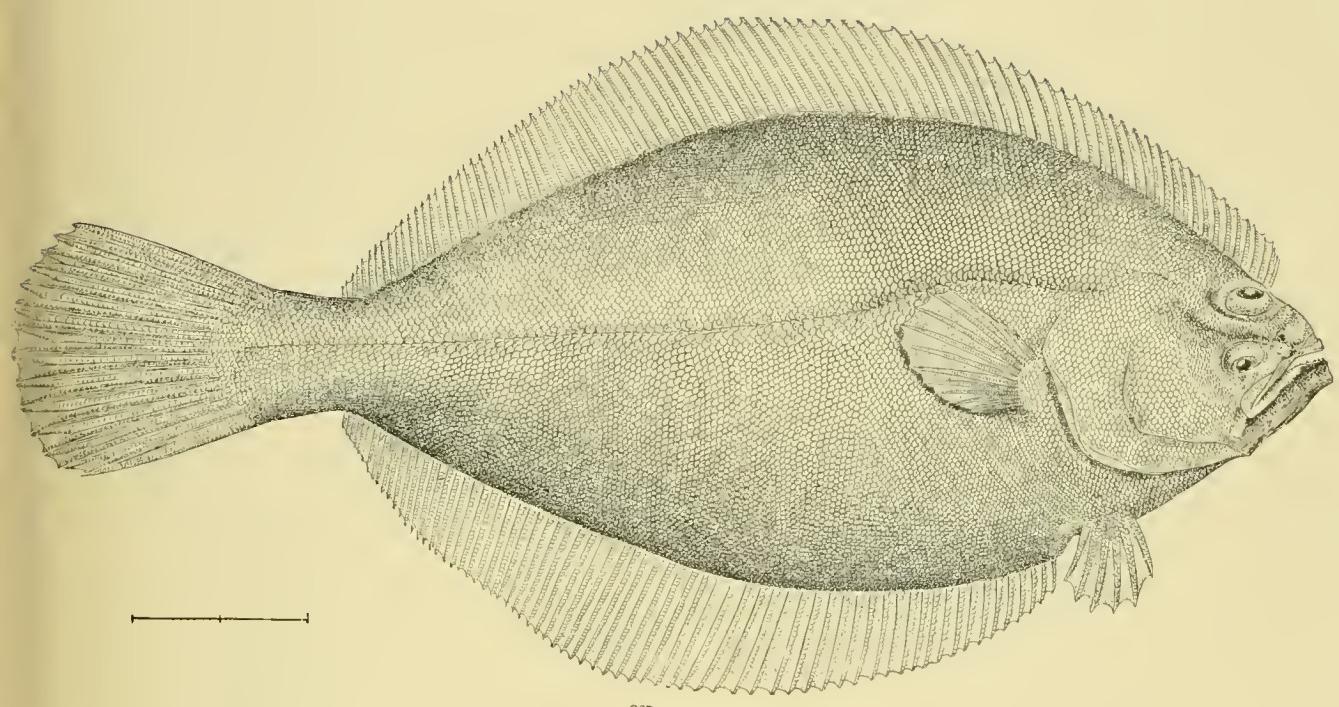
365*a*



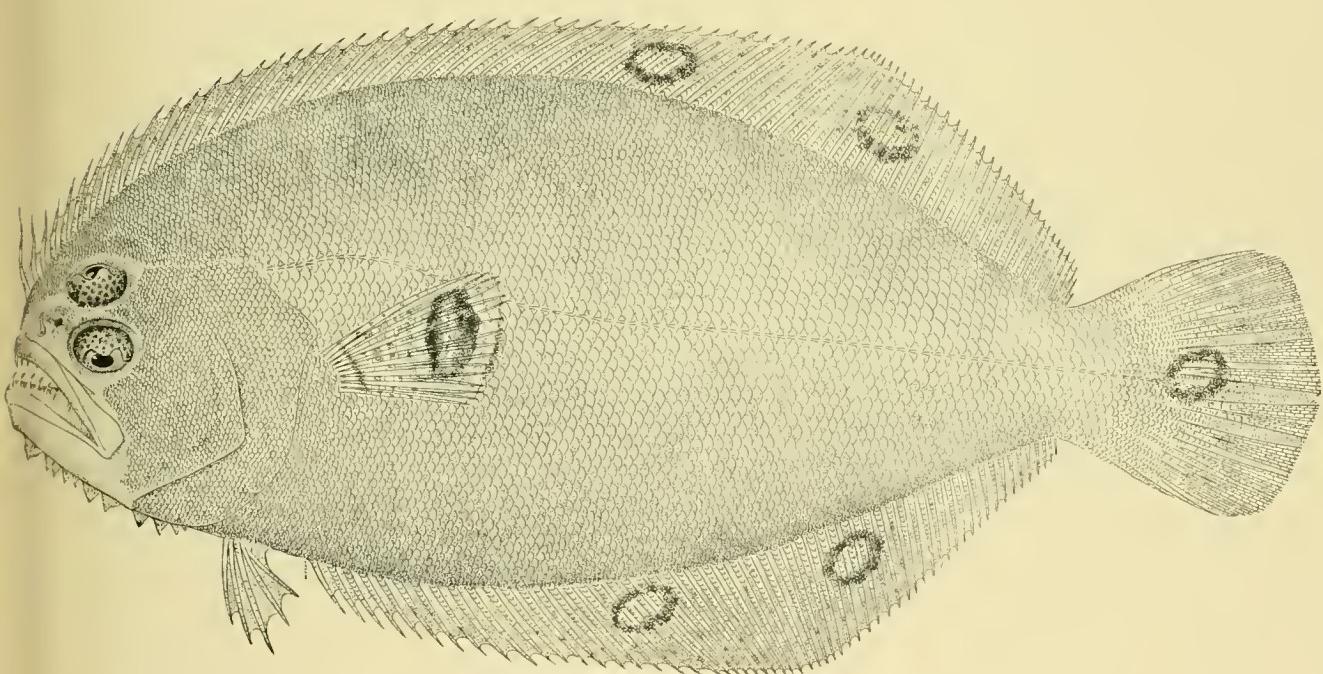
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365*a, b.* NOTOSEMA DILECTA. (p. 437.)

366*a, b.* CITHARICHTHYS ARCTIFRONS. (p. 442.)



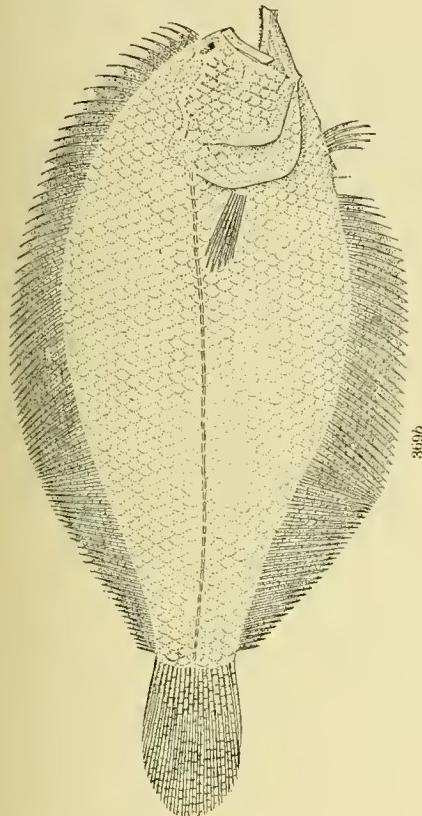
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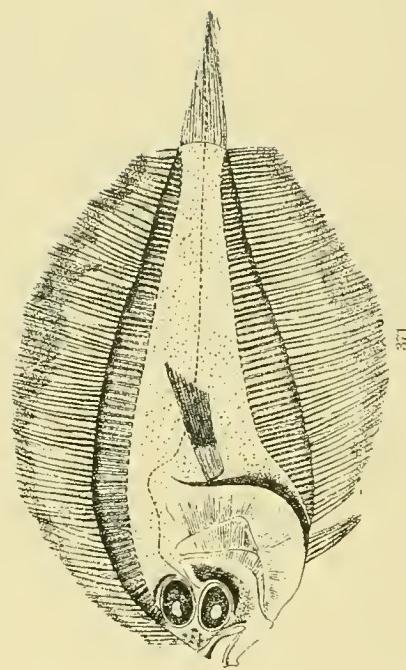
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367. *HIPPOGLOSSOIDES PLATESSOIDES.* (p. 438.)

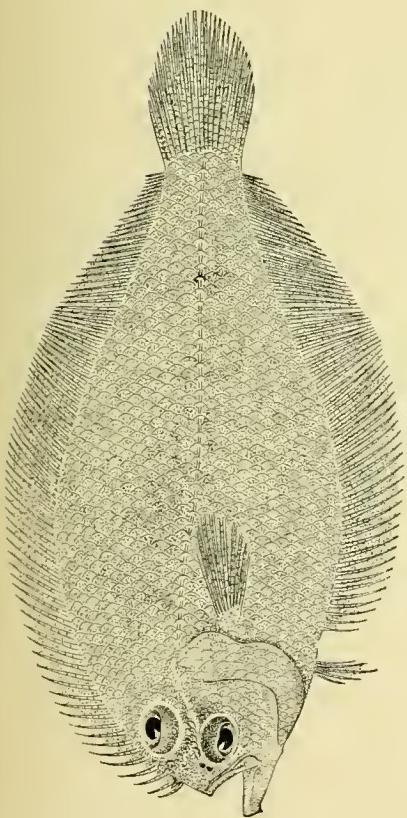
368. *CYCLOPSETTA FIMBRIATA.* (p. 451.)



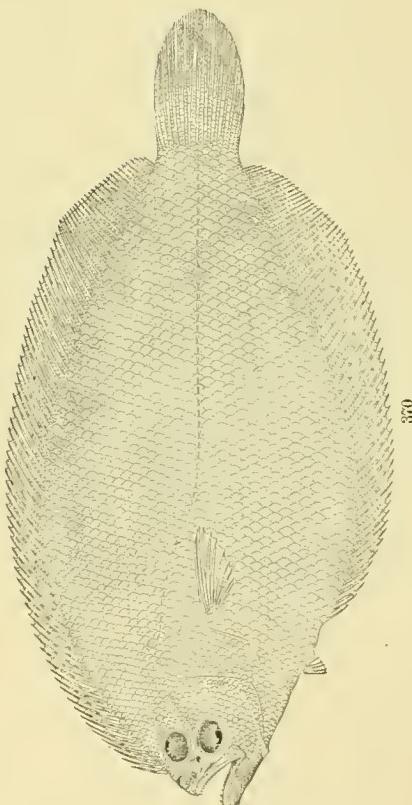
369b



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369a

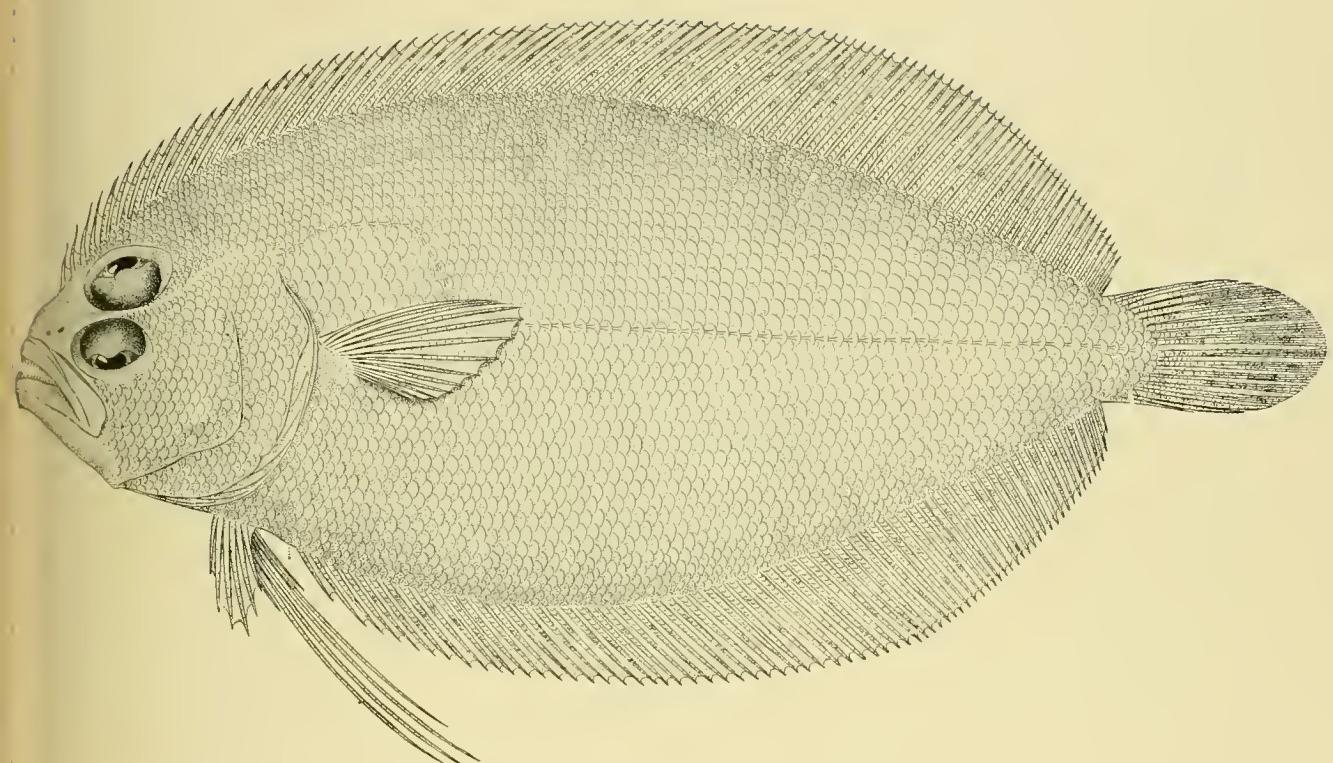


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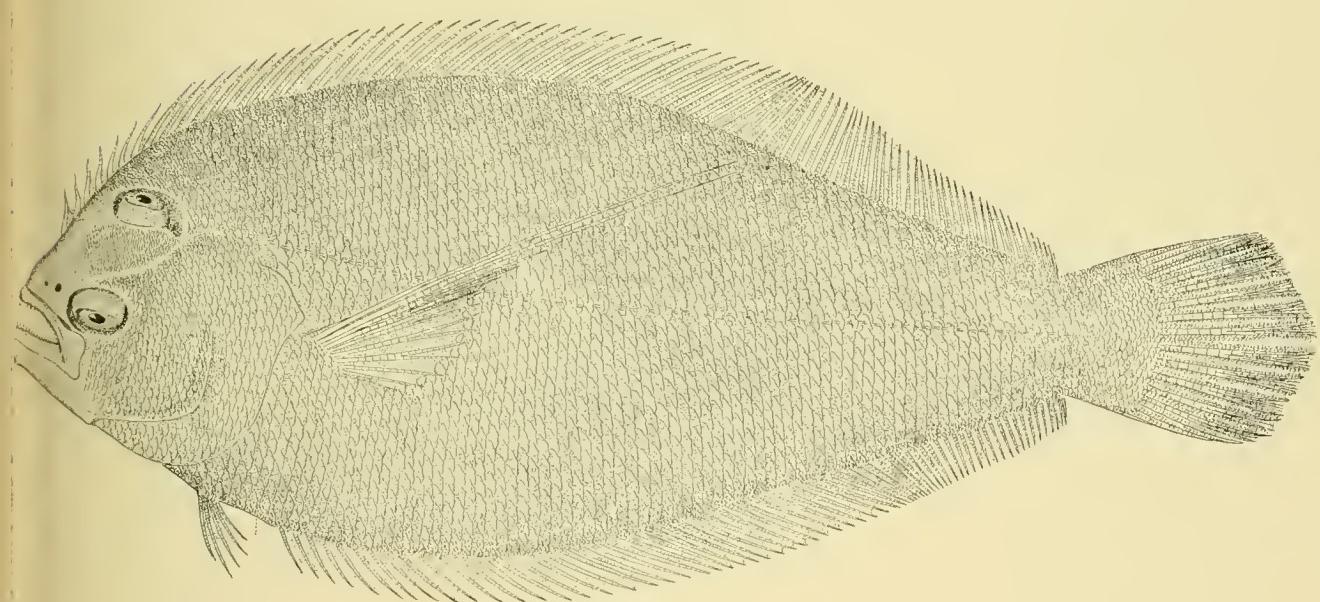
369a, b. *CITHARICHTHYS UNICORNUS*. (p. 444.)

371. *SCIANECTES MACROPHTHALMUS*. (p. 440.)

370. *CITHARICHTHYS SPILOPTERUS*. (p. 447.)

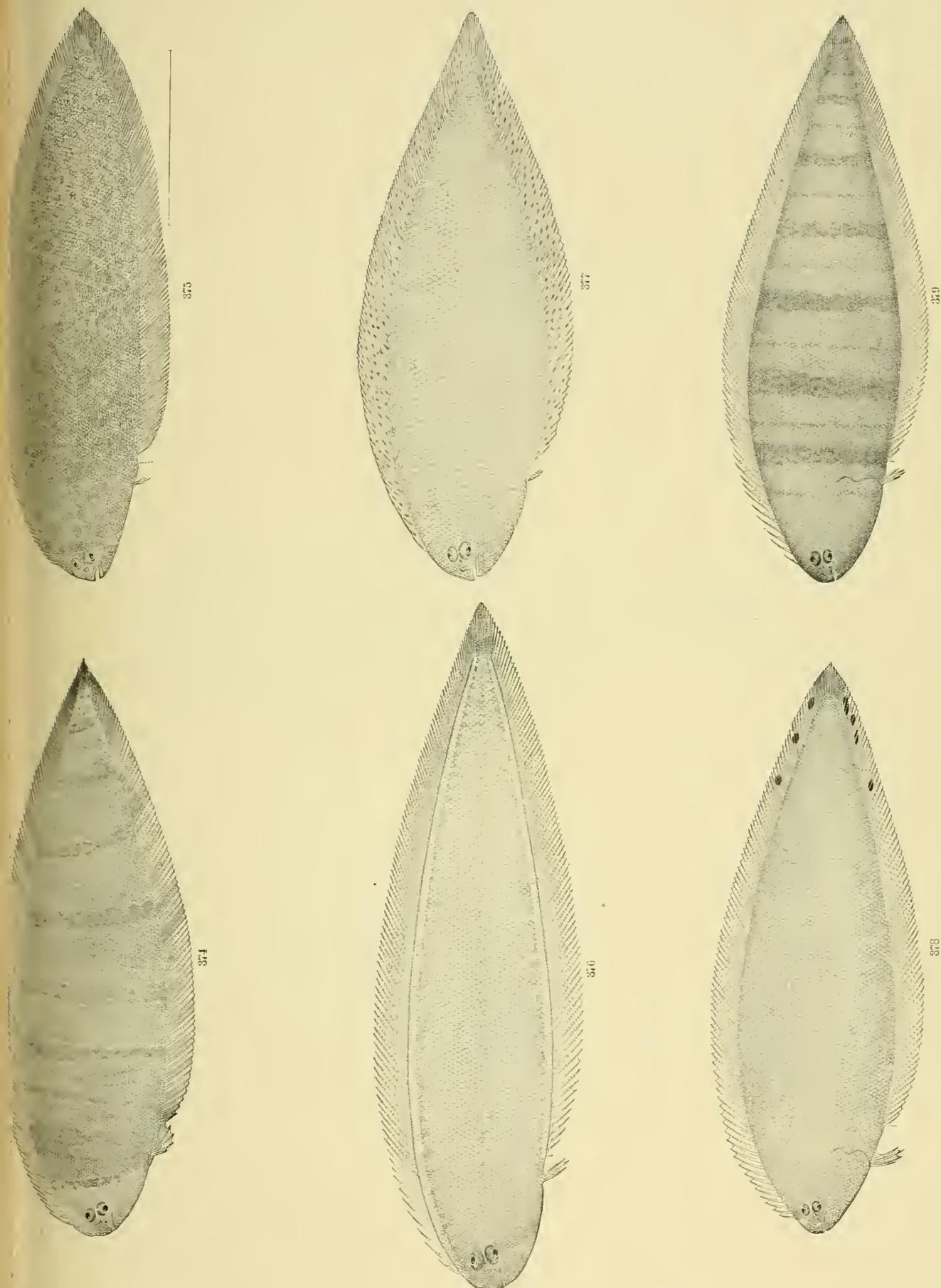


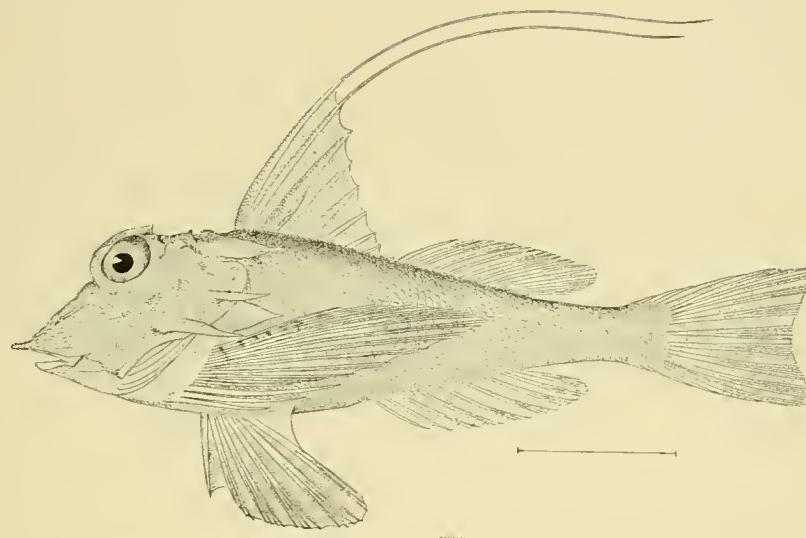
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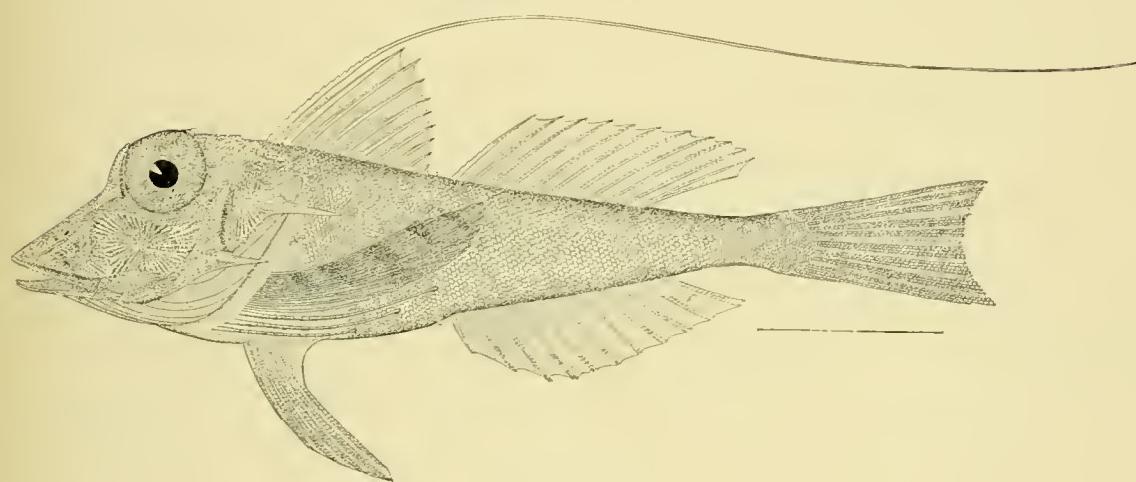
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372. *TRICHOPSETTA VENTRALIS.* (p. 440.)373. *CITHARICHTHYS PÆTULUS.* (p. 448.)

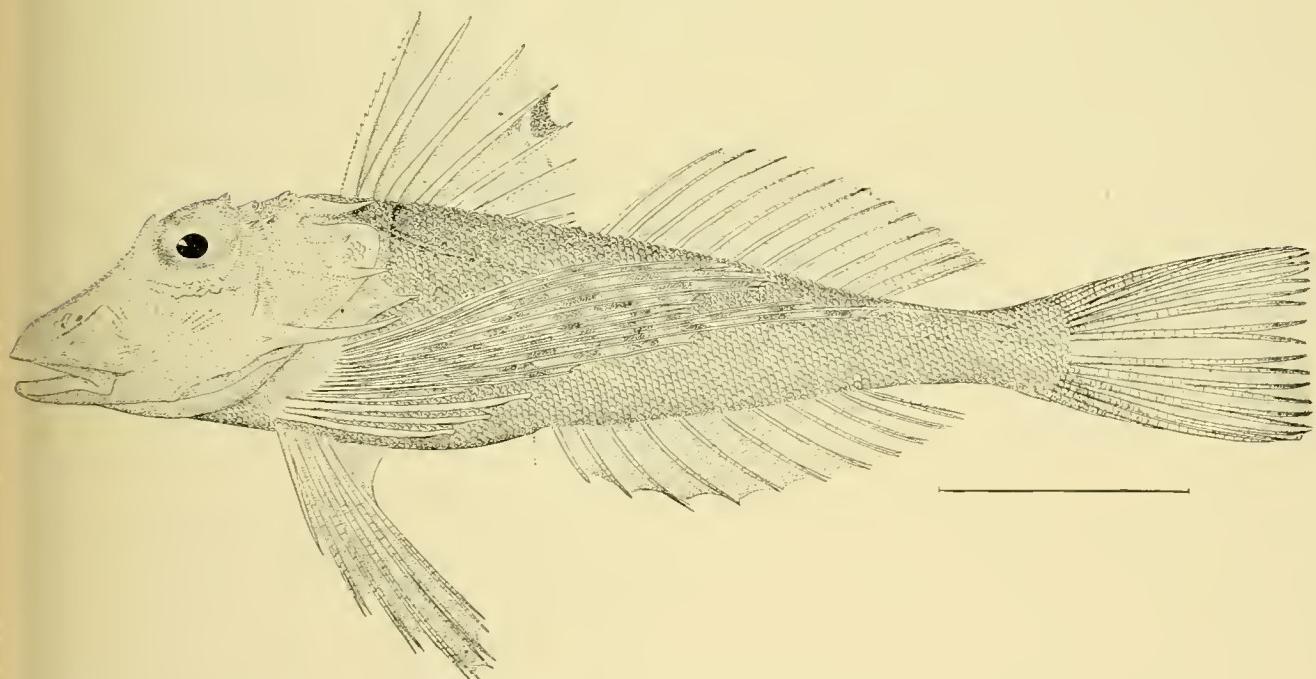
374. *APHORISTIA FASCIATA*. (p. 458.)
377. *APHORISTIA PIGRA*. (p. 460.)375. *APHORISTIA NEBULOSA*. (p. 458.)
378. *APHORISTIA DIOMEDIANA*. (p. 460.)376. *APHORISTIA MARGINATA*. (p. 459.)
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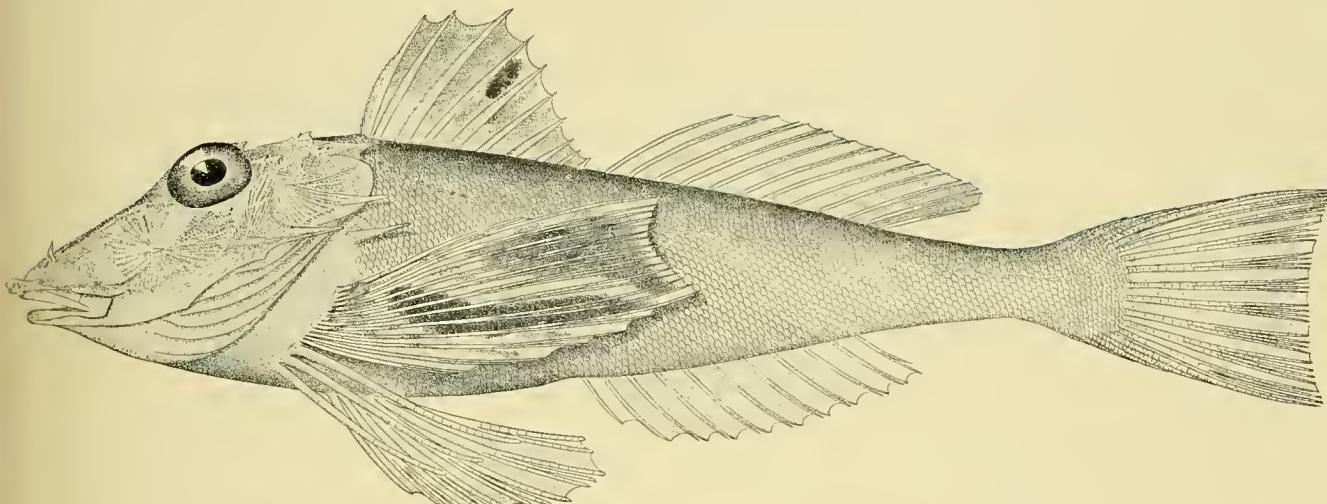


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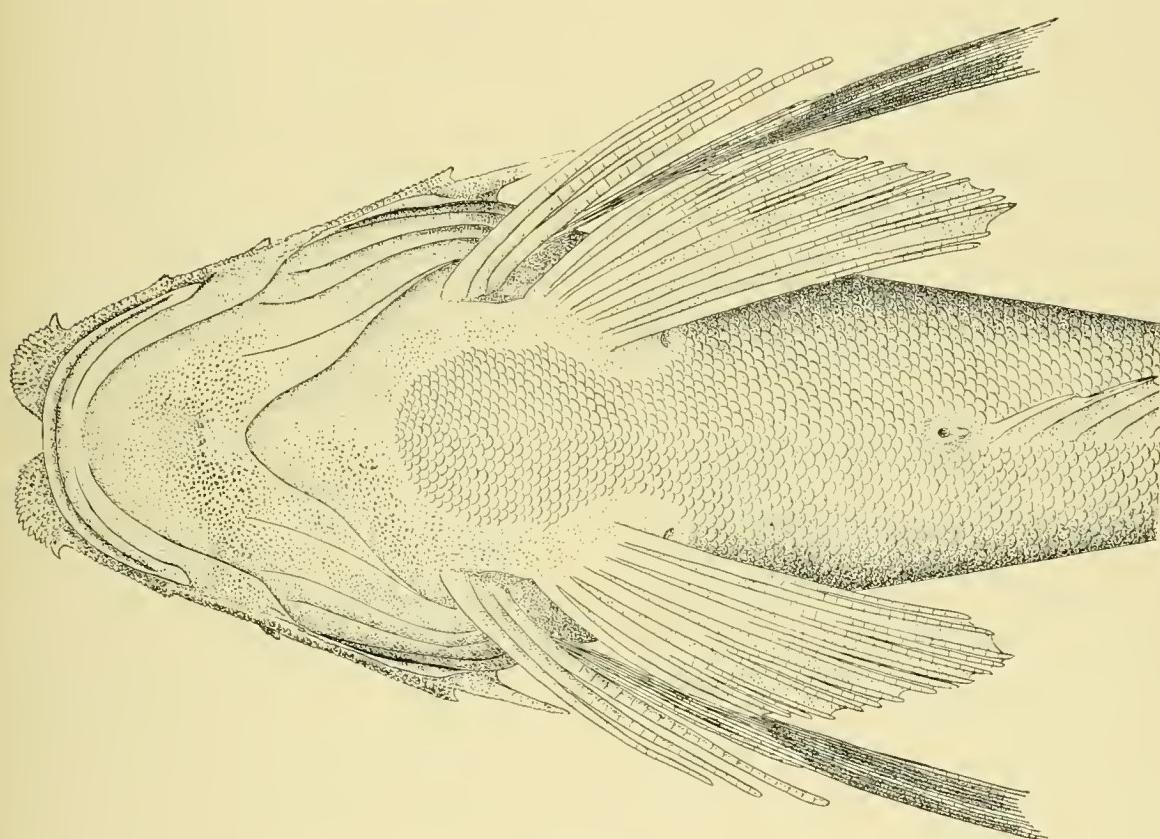


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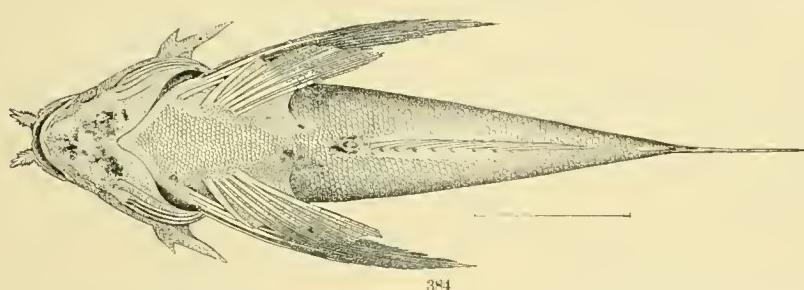
380. *PRIONOTUS MILITARIS.* (p. 464.)381. *PRIONOTUS EGRETTA.* (p. 465.)382. *PRIONOTUS ALATUS.* (p. 467.)



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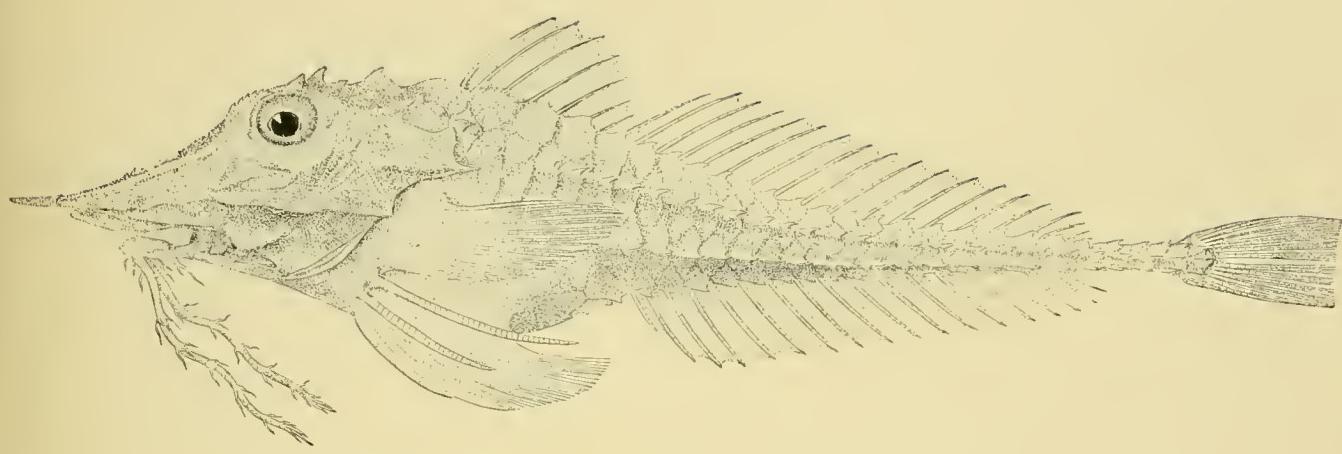
383b



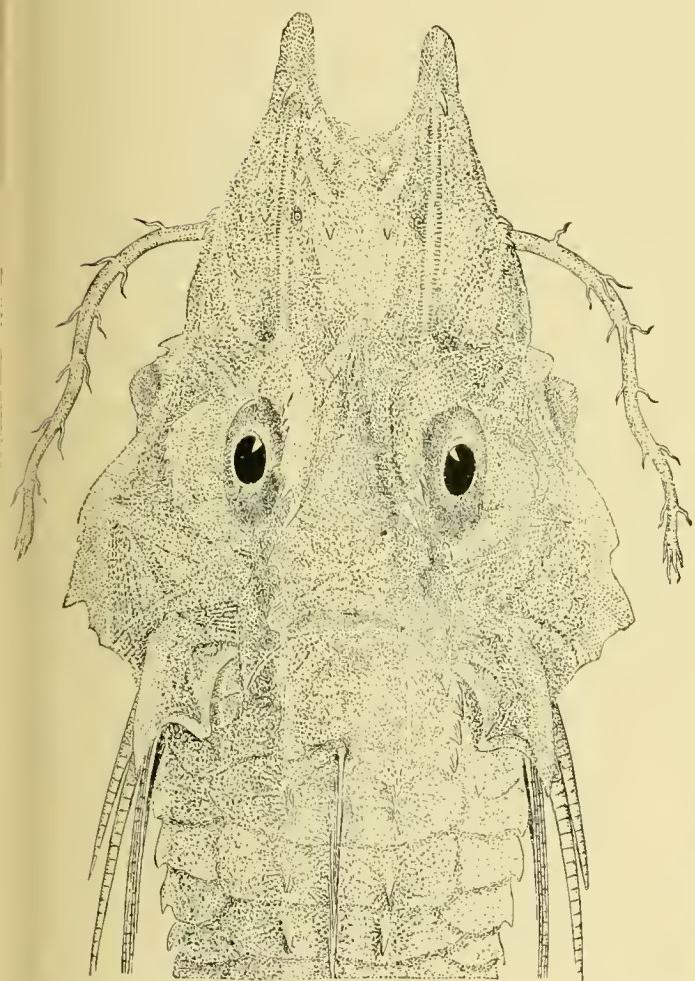
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383, 383b. PRIONOTUS TRINITATIS. (p. 468.)

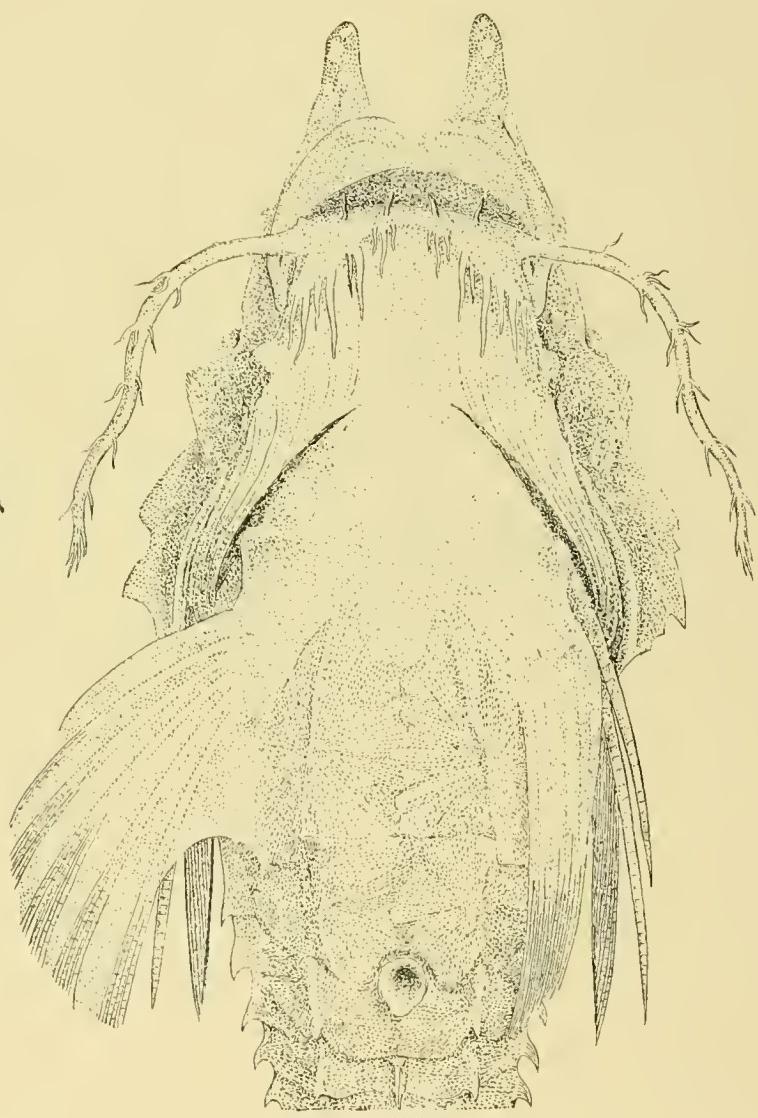
384. PRIONOTUS MILITARIS. (p. 464.)



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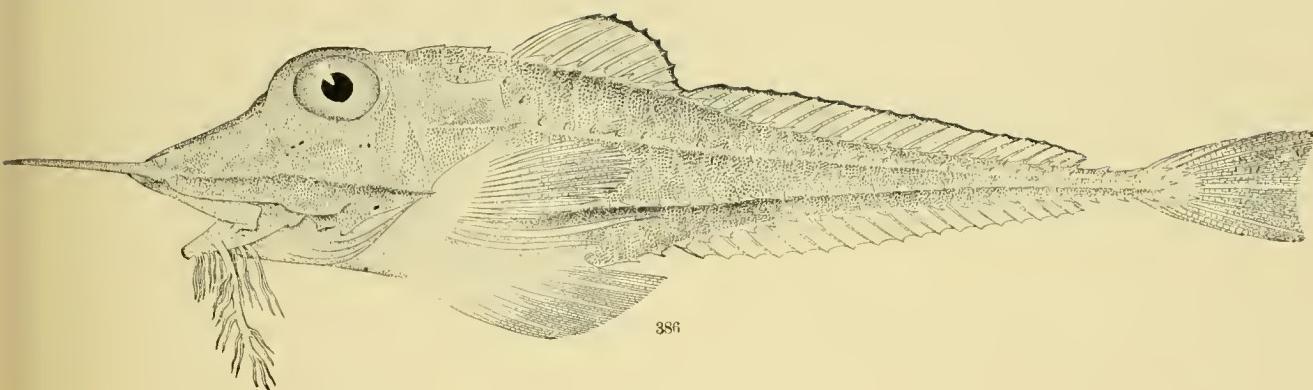


385a

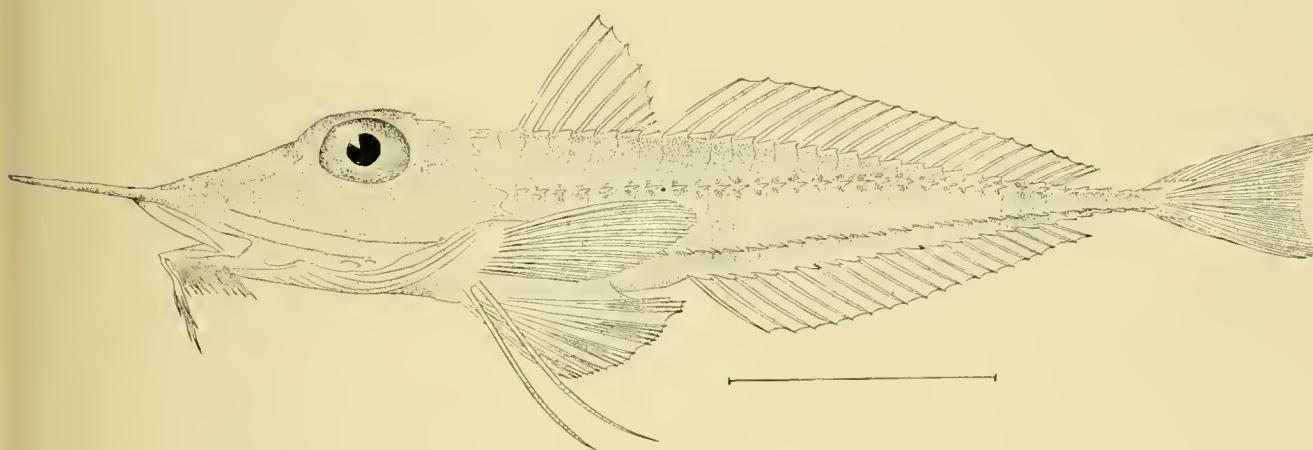


385b

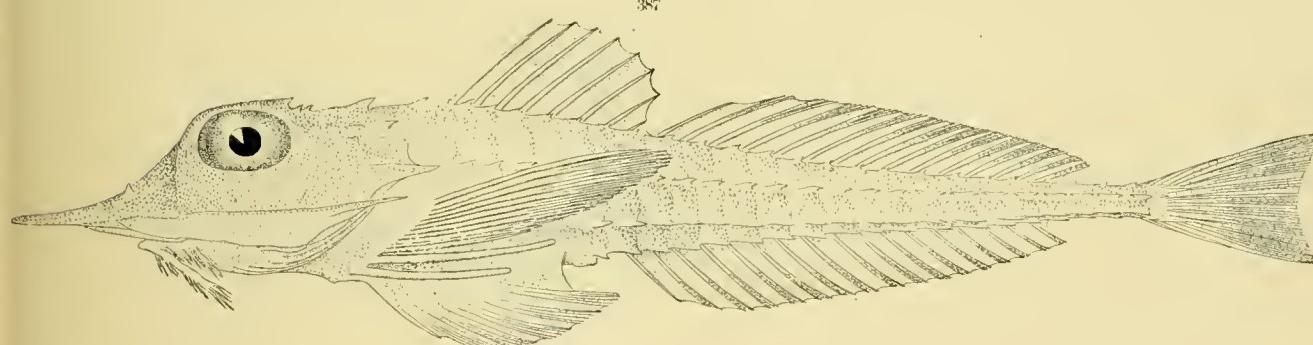
385, 385a, b. *PERISTEDION MINIATUM*. (p. 470.)



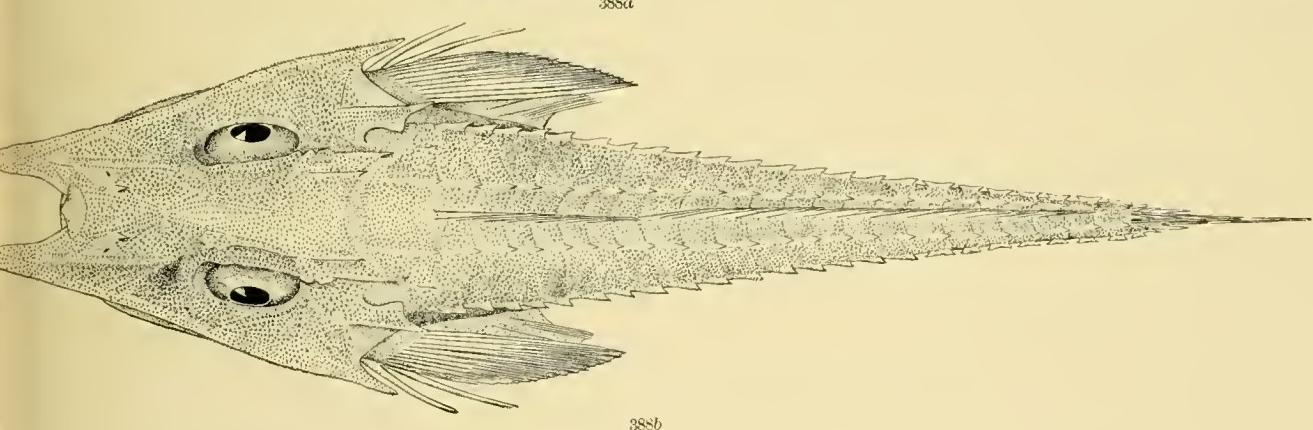
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388a

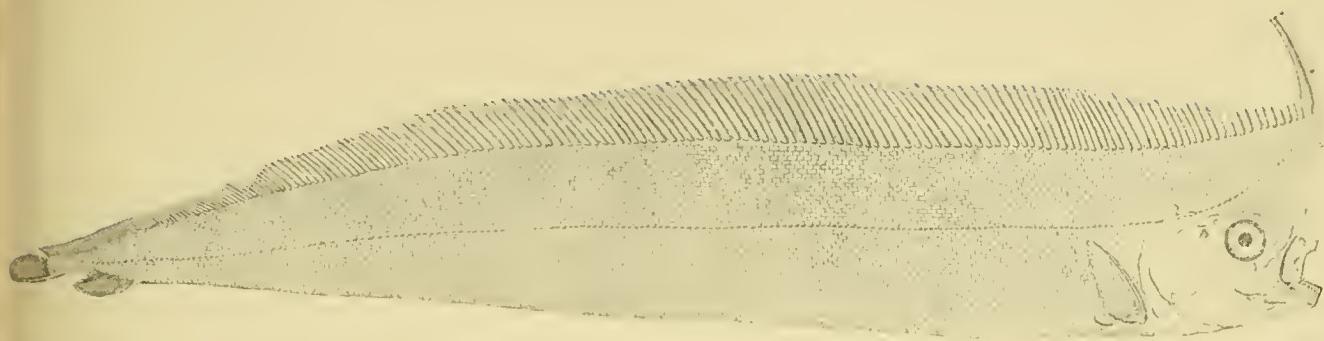


388b

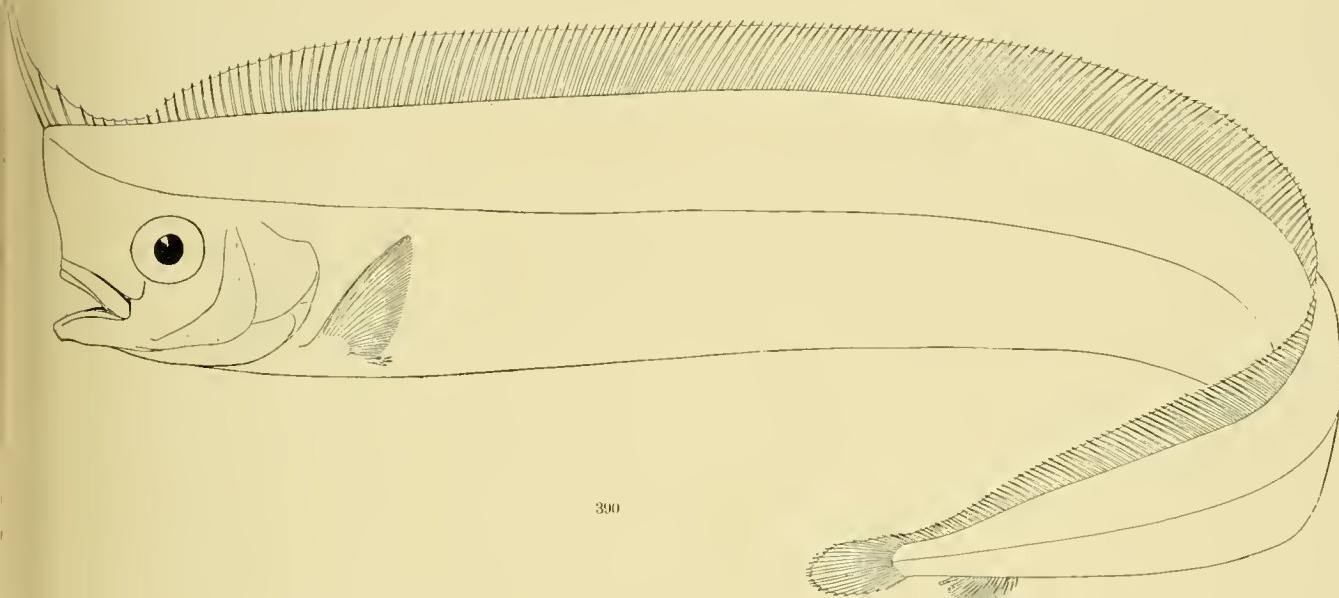
386. *PERISTEDION LONGISPATHA.* (p. 472.)

388a, b. PERISTEDION PLATYCEPHALUM. (p. 474.)

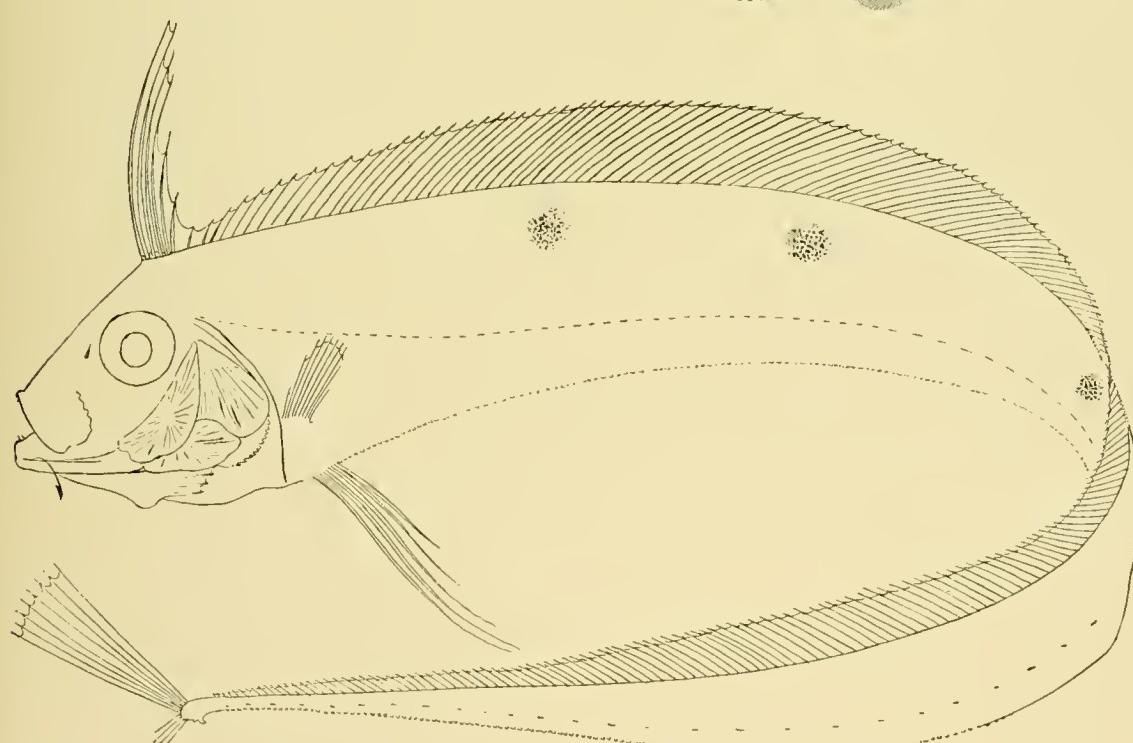
387. *PERISTEDION GRACILE.* (p. 473.)



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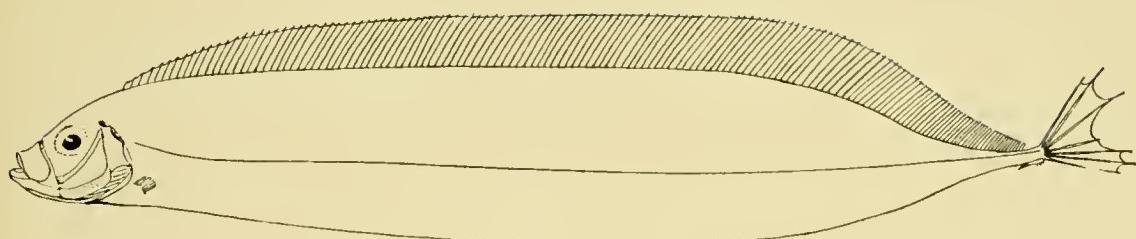


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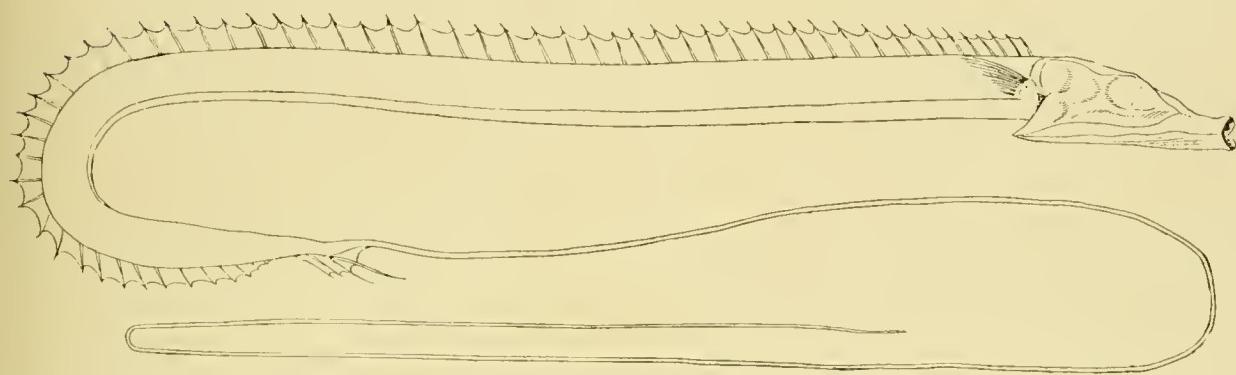
389. *LOPHOTES CEPEDIANUS.* (p. 349.)

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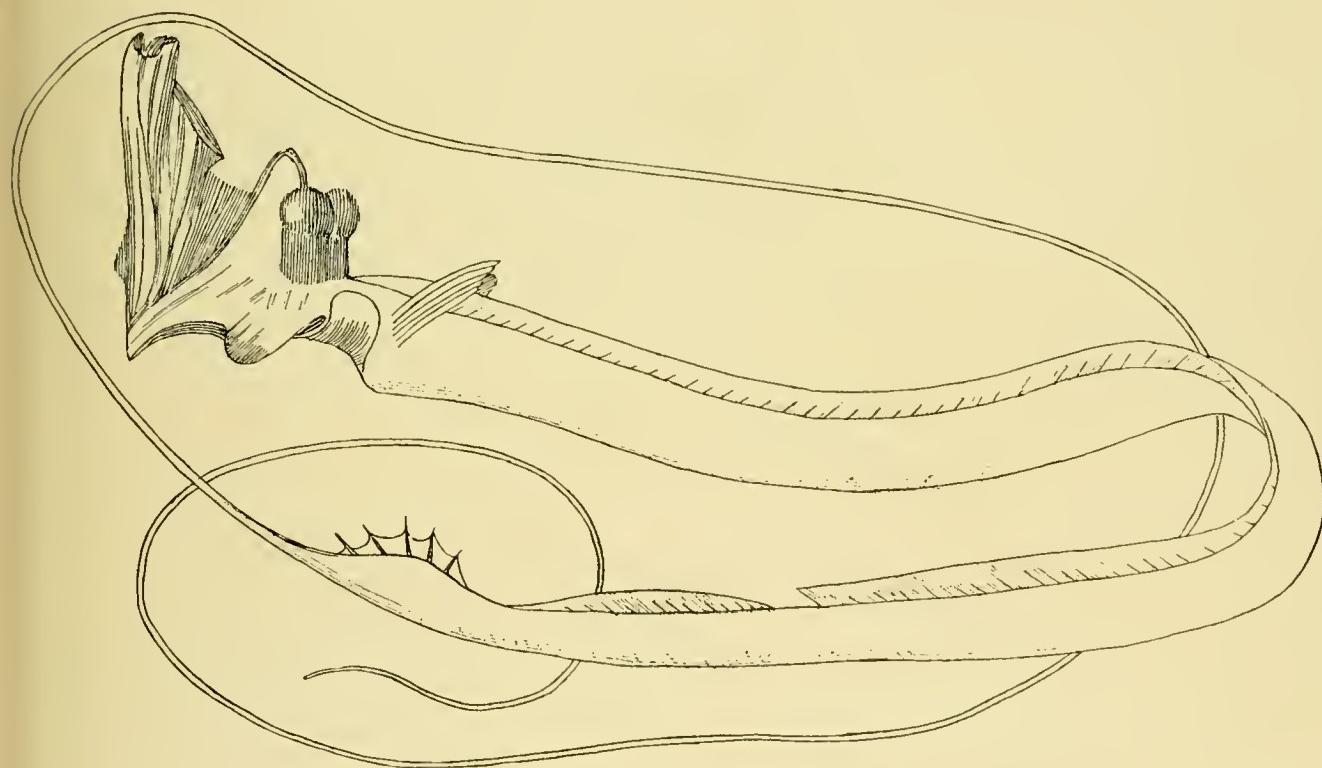
390. *LOPHOTES CAELLEI.* (p. 351.)391. *TRACHYPTERUS IRIS.* (p. 477.)



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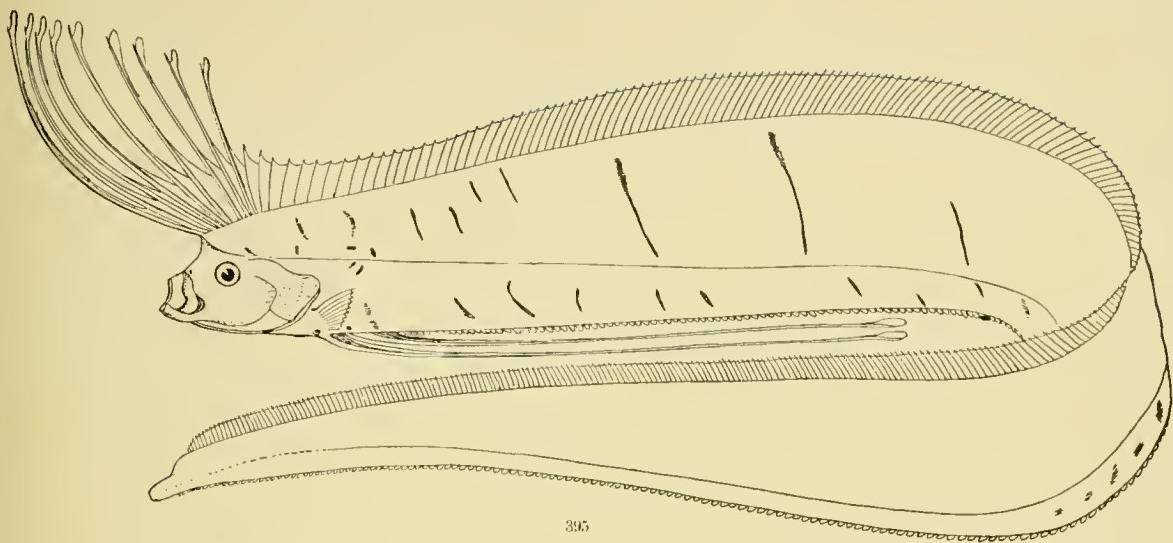


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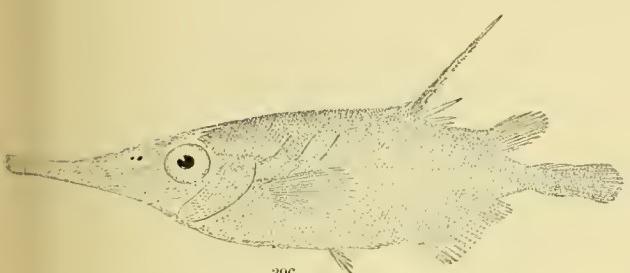


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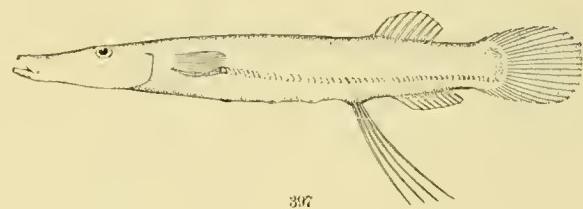
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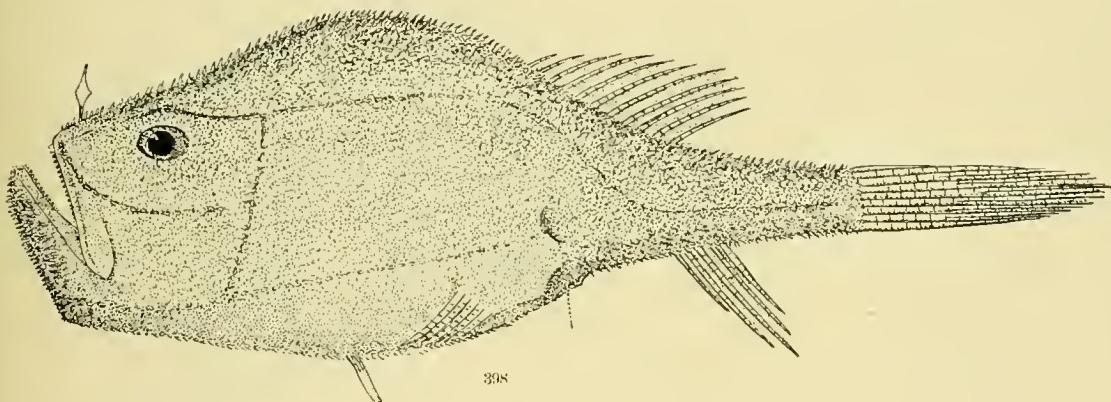
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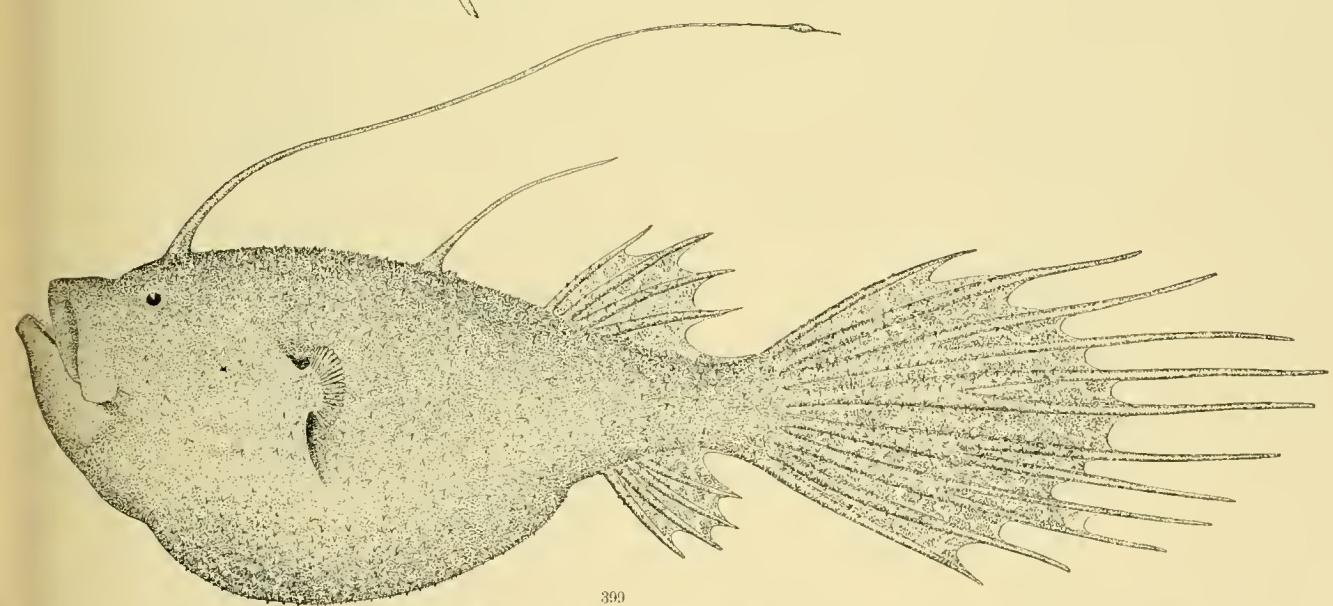
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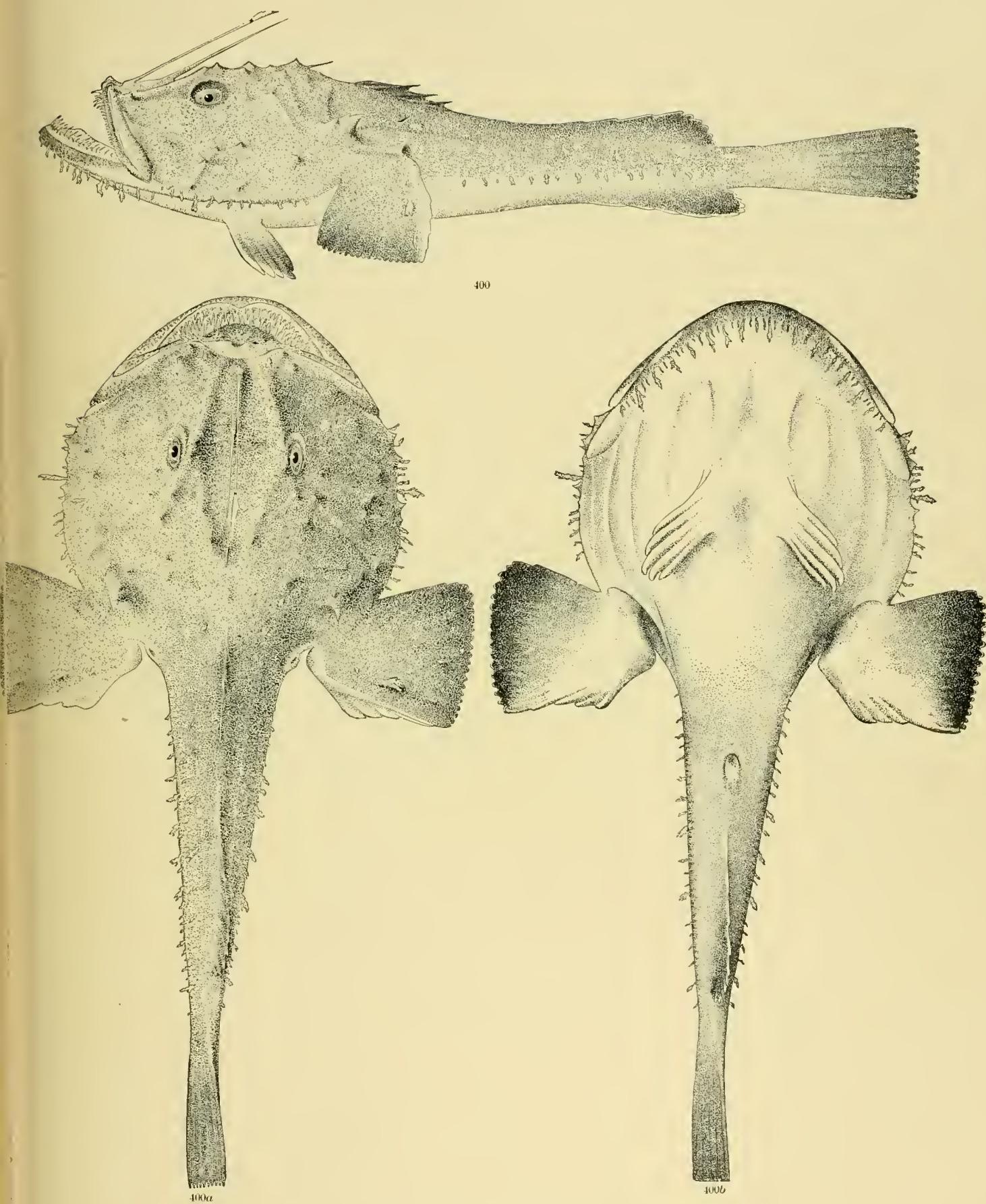


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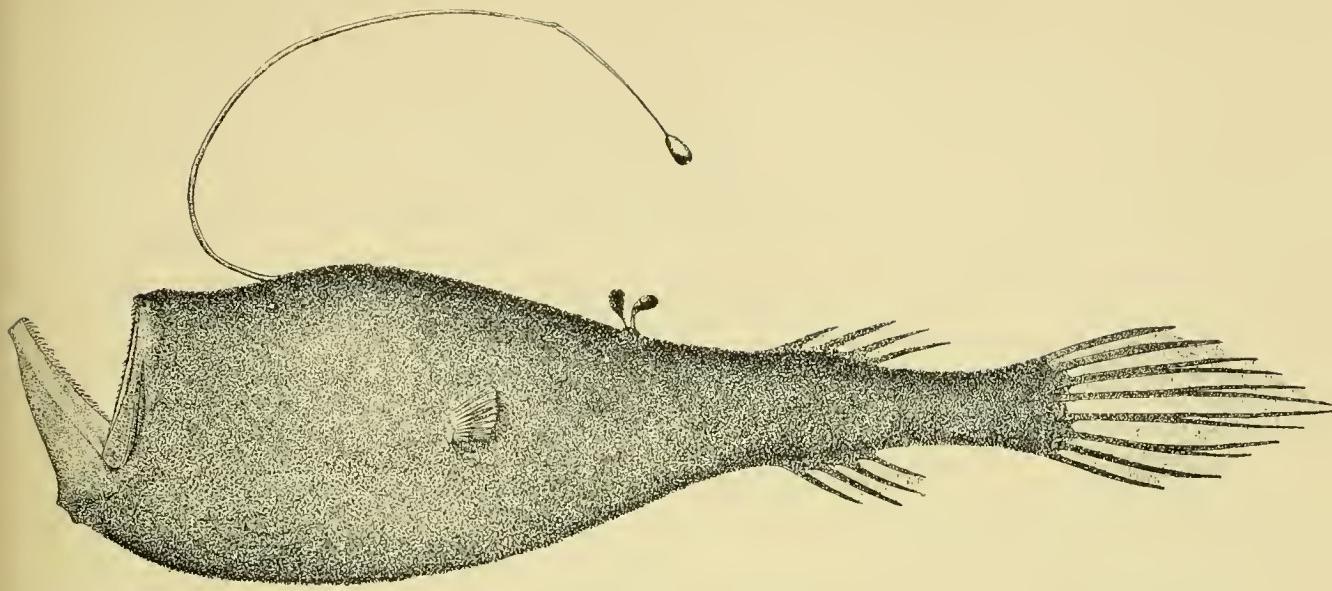


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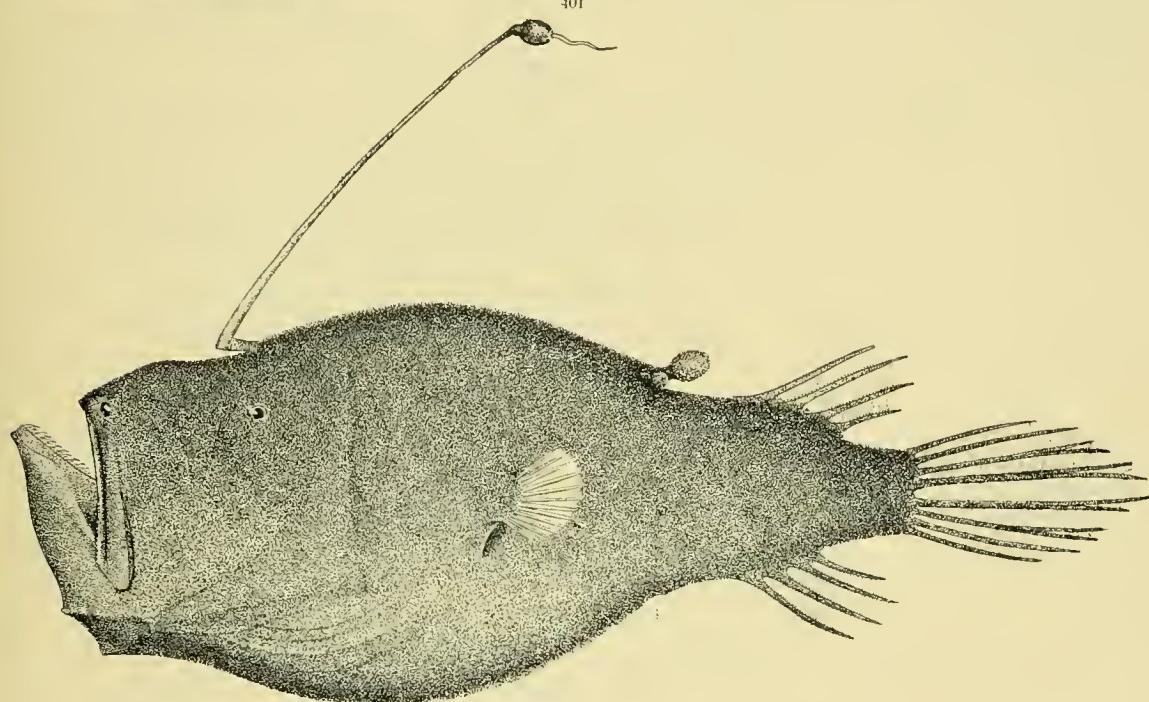
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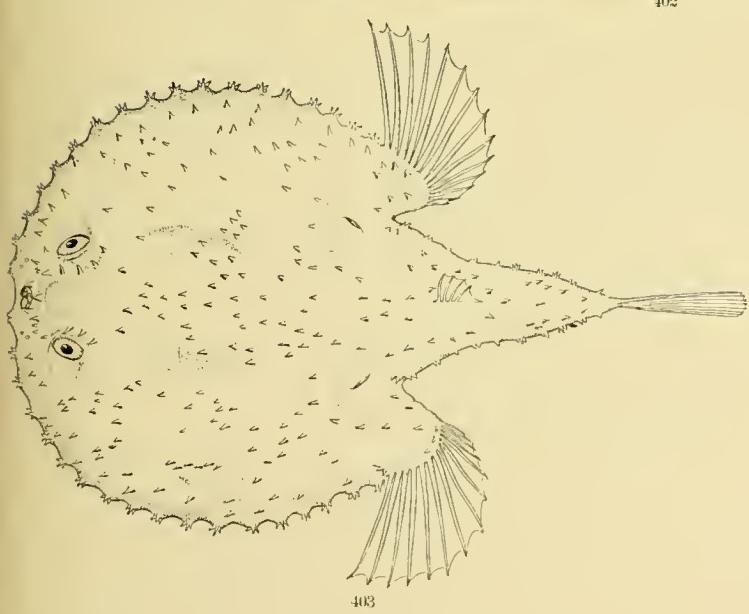
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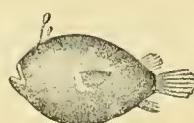


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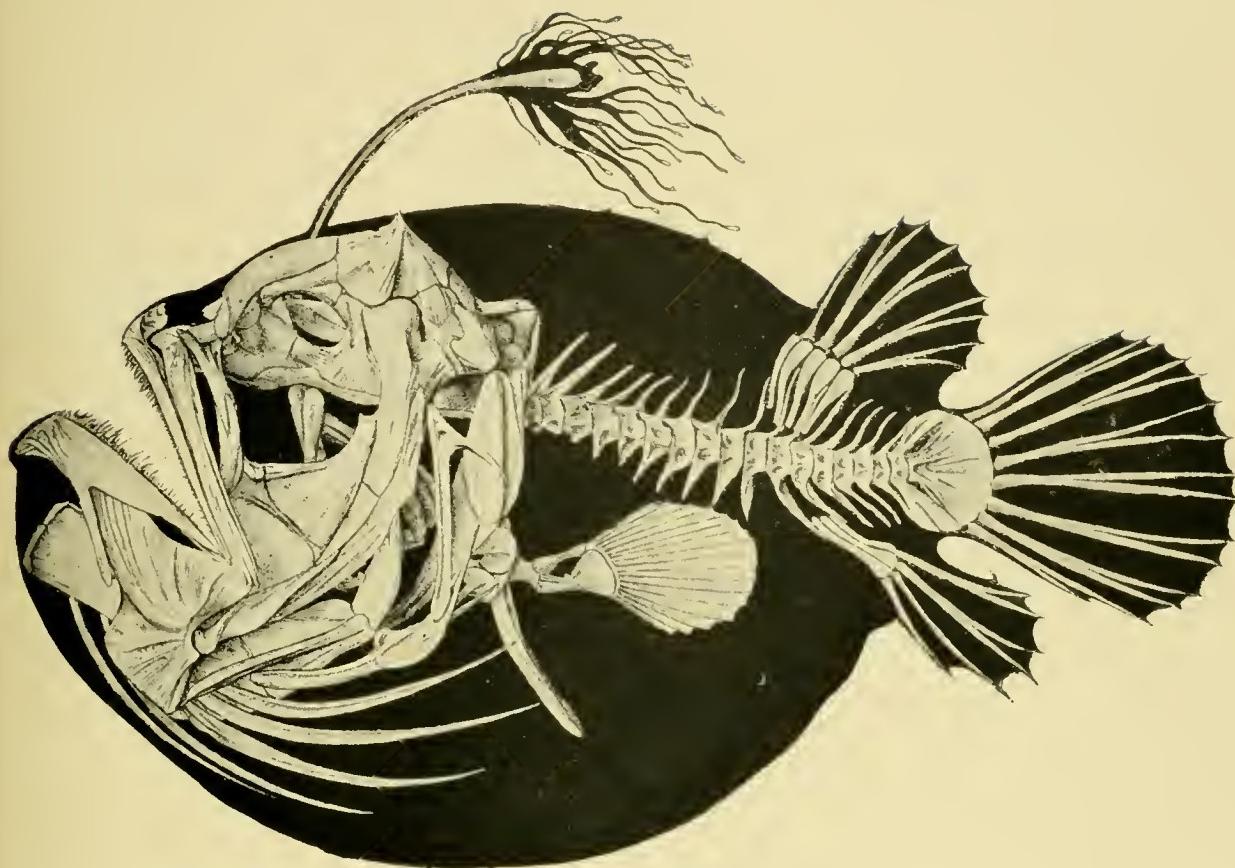
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401. *MANCALIAS SHUFELDTII.* (p. 490.)
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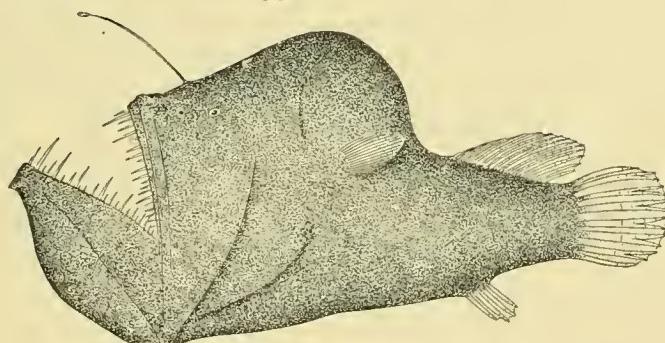


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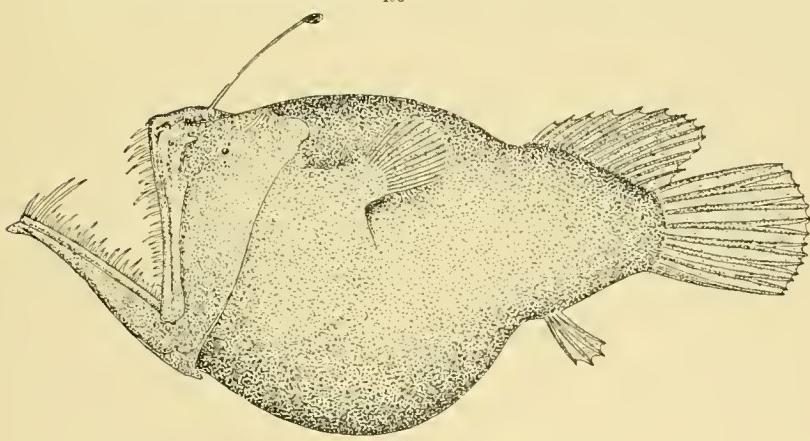
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404. *PARONEIRODES GLOMEROSUS.* (p. 493.)



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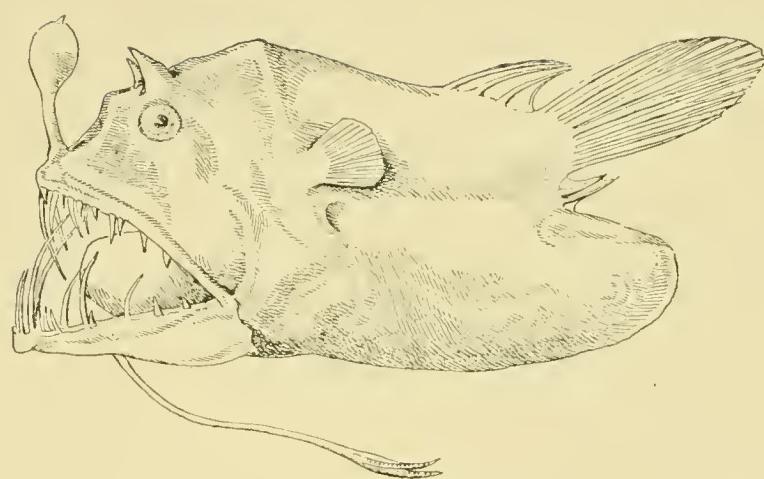
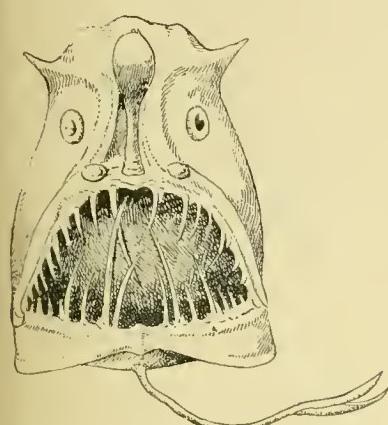


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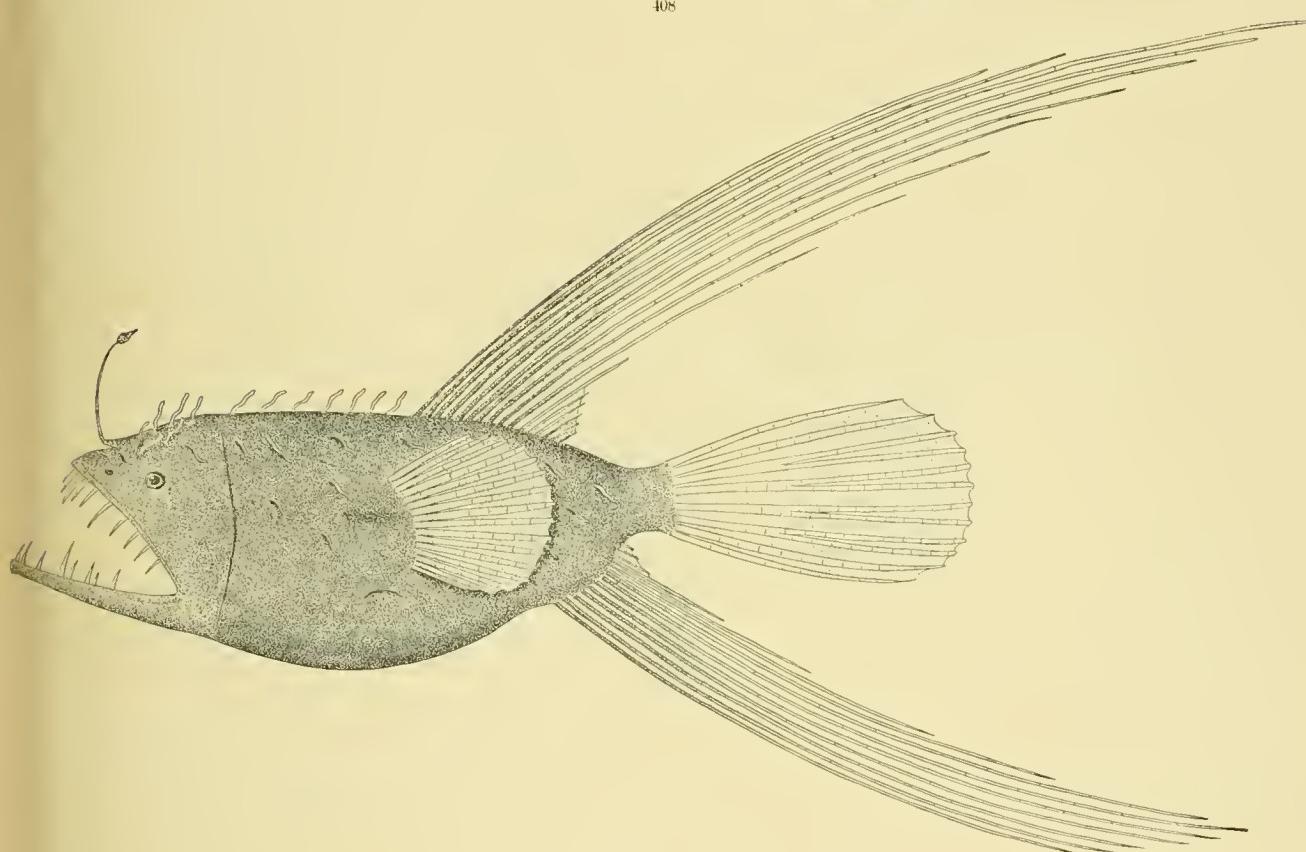


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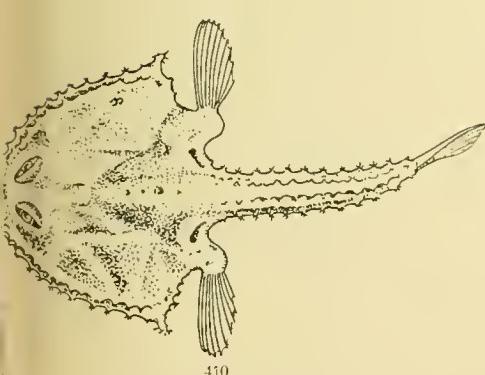
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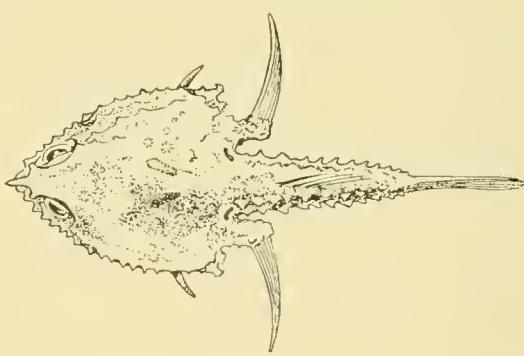
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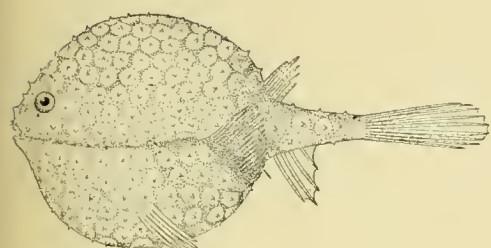
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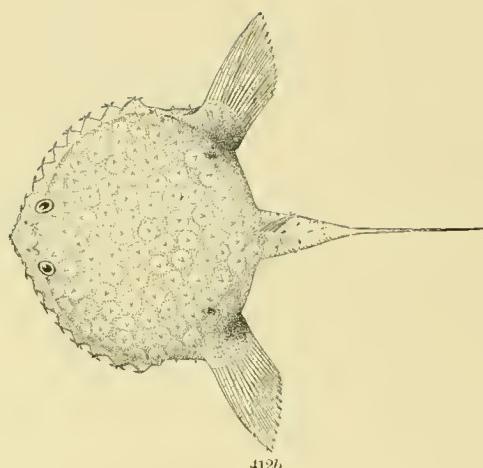
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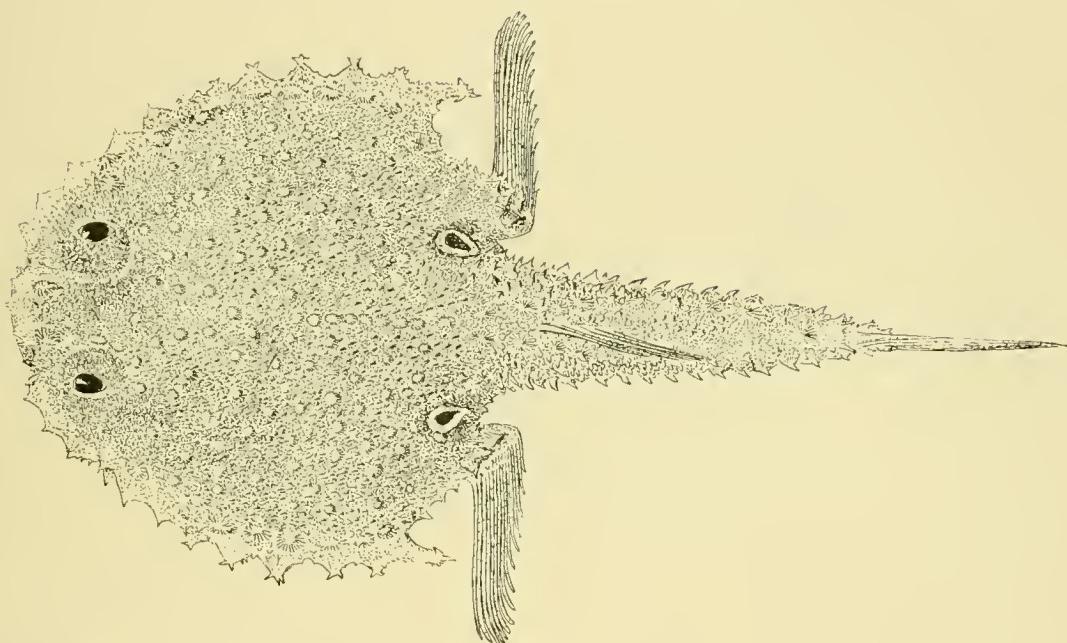
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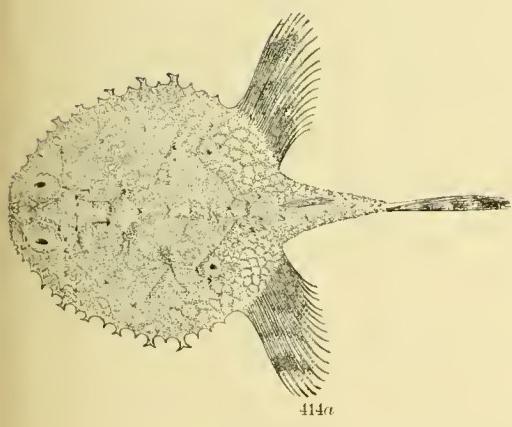
412a



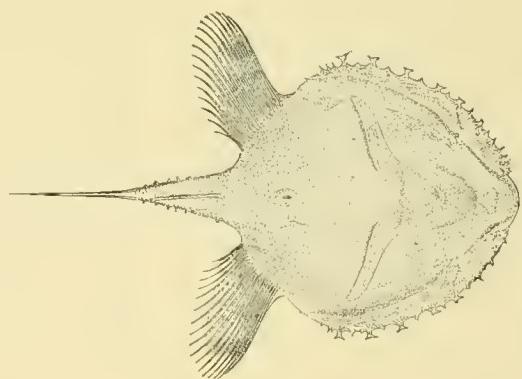
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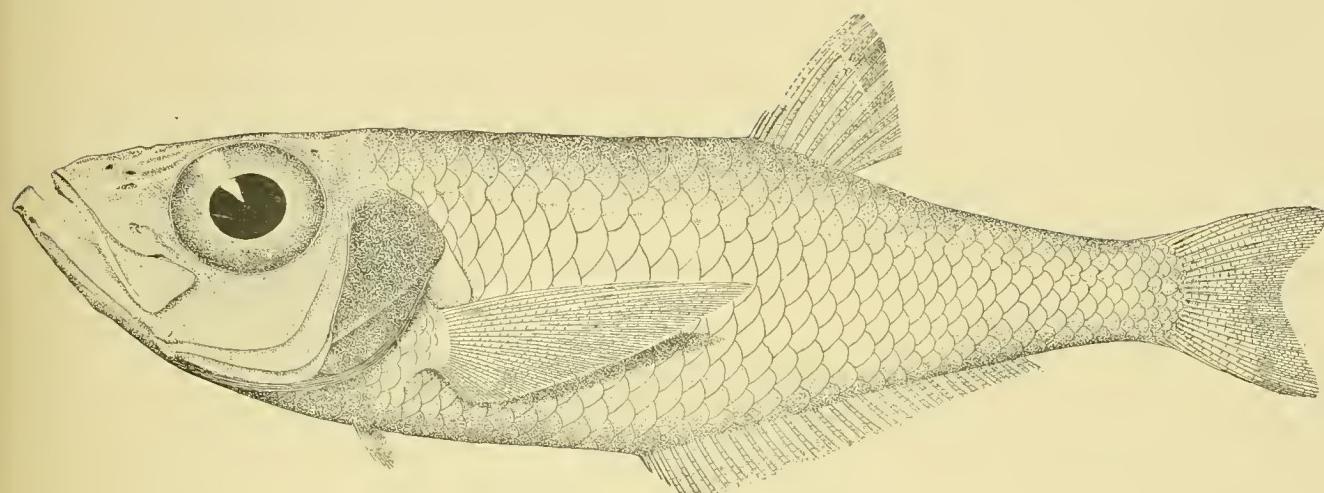


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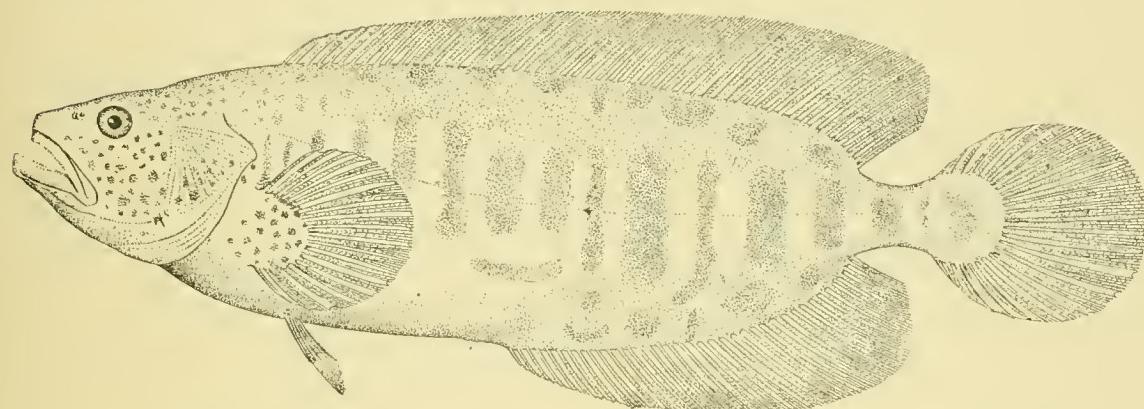


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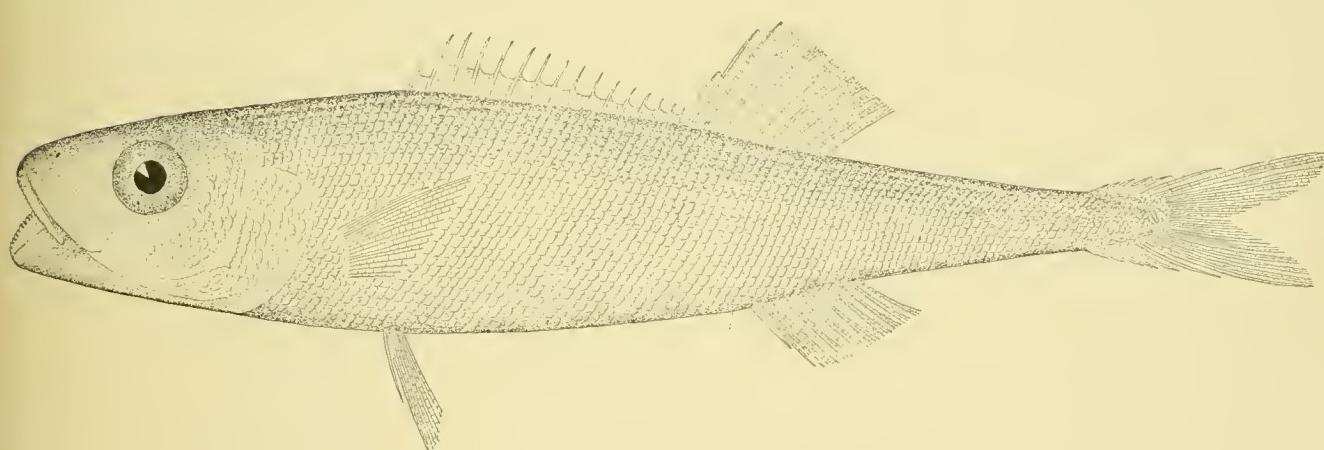
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